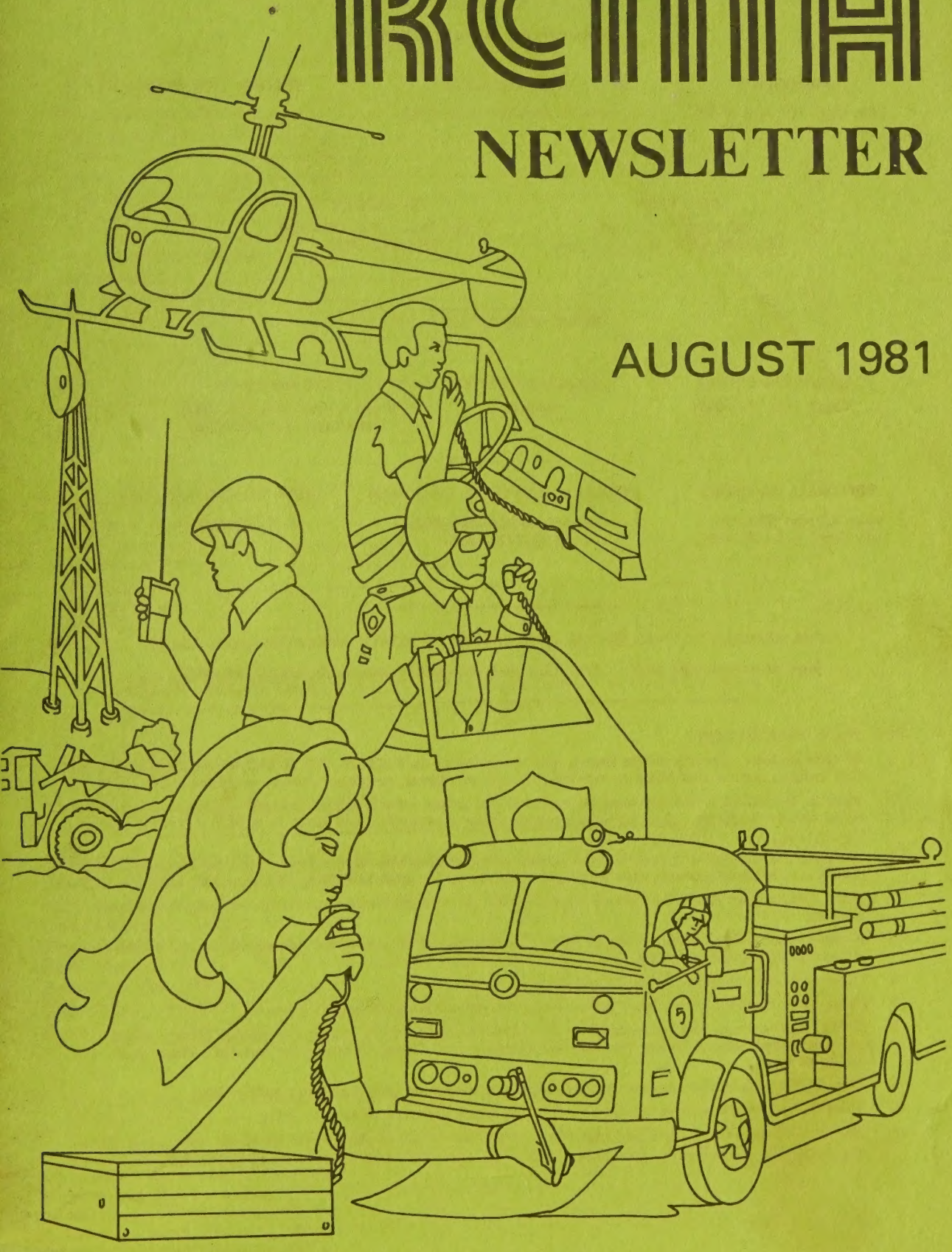
RCMA

NEWSLETTER



AUGUST 1981

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OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to R.C.M.A., P.O. Box 4563, Anaheim, CA 92803. This includes matters that relate to renewals, changes of address, newsletter delivery problems, etc.
2. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, P.O. Box 341, Ringoes, NJ 08551.
3. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA, P.O. Box 408, Earp, CA 92242.
4. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.
5. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.
6. Please write on only one side of the paper.
7. Please don't combine in one letter several items that should go to different addresses.
8. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.
9. Your RCMA membership number and expiration date appear on your newsletter mailing label.
10. You may join or renew your membership for ONLY one year at a time.
11. The RCMA Newsletter accepts paid advertising. If you would like to place a paid ad, please write to the following address for our advertising guidelines: RCMA Newsletter, P.O. Box 4563, Anaheim, CA 92803.

RCMA NEWSLETTER
August 1981 Issue 66

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NEW NEWSLETTER EDITORIAL ADDRESS:

P.O. Box 341
Ringoes, NJ 08551

EFFECTIVE IMMEDIATELY: All mail regarding the editorial content of the RCMA Newsletter now must be sent to the above address. The Willow Grove, PA, P.O. box has been closed and all mail for the following columns now must be sent to the Flemington address: ThoughtWaves, Your Thoughts, Business Etc., Communications Profile and Miscellany. The Flemington address also is to be used to contact me personally. As usual, all problems with newsletter delivery, membership and renewals should be sent to the Anaheim, CA, P.O. box. Thanks--CHUCK GYSI, Managing Editor.

The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $12.00 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$13.50; Europe—$14.50, South Pacific and Asia—$15.00. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA Newsletter editors and officers are not responsible for the accuracy or validity of information contained herein. RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

** Calendar **

Send notices of upcoming events for the Calandar section to John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803. Please send notices well in advance of the Newsletter deadline.

The R.C.M.A. supports scanning and scanner clubs. If your local R.C.M.A. scanner group is having a meeting, or if you are another radio club planning a meeting, send an announcement to the Calendar Editor and it will be sent to all members of R.C.M.A. Because of individual member requests and previous problems, the Board does not feel that sectional mailing lists should be distributed.

Greater L.A. Area R.C.M.A.

Board meetings are open to all members of R.C.M.A. They start at 7:30 PM. Now that we have separated labeling of the newsletter, the meetings will be devoted to R.C.M.A. policy and, of course, the latest scanner activities.

R.C.M.A. Working Sessions have been scheduled for the first Tuesday evening of each month. Any member of R.C.M.A. or visitor is welcome to attend and/or assist in the suffeling of papers and attempts to ascertain what went wrong with member X's subscription.

Aug	4	TUESDAY	7:30pm	Anaheim Branch Library, 1349 S. Euclid
Sept	1	TUESDAY	7:30pm	Anaheim Branch Library, 1349 S. Euclid
Oct	6	TUESDAY	7:30pm	Anaheim Branch Library, 1349 S. Euclid
Nov	3	TUESDAY	7:30pm	Anaheim Branch Library, 1349 S. Euclid
Dec	1	TUESDAY	7:30pm	Anaheim Branch Library, 1349 S. Euclid

DELAWARE VALLEY CHAPTER MEETINGS

The following is the meeting schedule for the Delaware Valley RCMA Chapter that meets in the Philadelphia area. Notices of meetings are no longer being sent by mail. All meetings will be posted in the newsletter from now on.

For further information on any of the meetings, call Gerald Shoaf (PA-036) at (215) 356-1982 or write to Chuck Gysi, P.O. Box 341, Ringoes, NJ 08551.

Sat., June 20, 2 p.m.--General meeting at Northeast Regional Branch of Free Library of Philadelphia, Cottman Avenue at Oakland Street (across from Gimbels Great Northeast). Meeting in music room near reference section.

Sat., July 18, 2 p.m.--Tour of new Montgomery County Communications Center and Emergency Operations Center in Eagleville, PA. This modern underground facility is one of the most-advanced computer-aided systems in the country. Located on Wilson Boulevard, just off Ridge Pike, the facility is on the Montgomery County Prison Farm, just north of Norristown. From Philly, follow Ridge Avenue until it turns into Ridge Pike in Montgomery County and follow through Norristown (called Main Street). After Route 363 turns off onto the right (don't turn), count eight streets on the left. The eighth street is Wilson Boulevard. Go down street and park in front of the small above-ground building that says EOC on it. We will enter the facility promptly at 2 p.m. You can't miss the large towers at the site.

Sat., Aug. 15, 2 p.m.--General meeting at Northeast Regional Branch of Free Library of Philadelphia, Cottman Avenue at Oakland Street.

Sat., Sept. 19--Tour to be scheduled.

Sat., Oct. 17--General meeting at Northeast Regional Branch of Free Library of Philadelphia, Cottman Avenue at Oakland Street. Meeting at 2 p.m. in music room.

Sat., Nov. 21--Tour to be scheduled.

Sat., Dec. 19, 2 p.m.--General meeting at Northeast Regional Branch of Free Library of Philadelphia, Cottman Avenue at Oakland Street.

NEED BACK ISSUES?

Back issues are again available for sale to members in the lots indicated below. Please note that the RCMA Newsletter is a club newsletter. Because it reflects the growth of RCMA, early issues do not contain as many articles as do the current ones. The Newsletter has evolved from a few mimeo pages to its present format under the leadership of three great editors---Don Jones, Iden Rogers, and Chuck Gysi---and the contributions of club members.

The reproduction of the articles is quite readable. To cut costs and allow the possibility of binding all the reprints in a notebook, the format of later newsletters has been changed from saddle stitch to edge binding. This has changed the page order presentation, but not the content of the articles or the frequency lists.

To order: Using the information given below, send your requests to R.C.M.A., Bill Ell, Secretary, 2831 Hermanos St., Pasadena, CA 91107. Be sure to include your name, address, RCMA membership number (it is on your label), and your check or money order payable to R.C.M.A.

PRICES VALID UNTIL JANUARY 1982

Lots (Months/Year)	No. of Issues	Price
Sept 75 – June/July 76 (No Oct or Nov published)	7	$ 2.00
Aug – Dec 76 (No Oct published)	4	$ 3.00
Jan – June 77	6	$ 4.00
July – Dec 77	6	$ 4.00
Jan – June 78	6	$ 5.00
July – Dec 78	6	$ 5.00
Jan – June 79	6	$ 6.00
July – Dec 79	6	$ 6.00

Reports of Meetings and Officers

Send reports (informal accounts) of RCMA meetings, gatherings, etc. which have occured to:
John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803.

Please note the change in the dues structure which were mentioned in the January, forward newsletters. To reiterate, the dues are:

The 50 United States	$12.00
Canada & Mexico	$13.50
Europe	$14.00
South Pacific & Asia	$15.00

(These additional fees reflect part of the higher cost of mailing)

These prices are valid until July 1, 1981.

Note also the date on the top line of your newsletter label. That is the month in which your newsletter subscription will terminate. For the new members who enrolled using the rate structures found in older publications, your subscriptions have been prorated.

The last four issues have been mailed under a new procedure. The mailing date has been shifted to about five days after the Board Meetings. We used to be three to four weeks in advance of the newsletter's cover date; now, under even the worst conditions, we will be two weeks ahead of the date. You should receive your newsletter no later than the first week of the month on the cover.

THOUGHT waves

Chuck Gysi, Managing Editor, P.O. Box 341, Ringoes, NJ 08551

Please excuse my shortness this month!

Right now I am surrounded by boxes with almost everything except my radio gear packed away. I have finally moved to New Jersey.

Because of the moving situation, my columns are a little shorter than usual this month. Please excuse me; everything will be back to normal next month.

Also, please be sure to notice the new mailing address for the newsletter editorial staff: P.O. Box 341, Ringoes, NJ 08551. Please send all mail to that address to reach me or if you are not sure what editor to send information to. As usual, if you have newsletter delivery problems and all other club business should be directed to the Anaheim post office box.

Our thanks go out to member John J. Goldman (NY-093), a New York-based reporter for the Los Angeles Times. John put together a super article on scanners that appeared in the Times on May 8.

Both RCMA President John Clark and editorial staffer Bryan Hunnell were quoted extensively in the article.

Keep your eyes open: There are more and more articles on scanners appearing each day.

Also, on the publicity circuit, a small write-up about RCMA and a photo of John Clark appeared in a Japanese publication detailing North American radio clubs. I don't understand Japanese, but I'm sure they said something nice about us.

In Philadelphia recently, the police radio room (actually a large chunk of a floor at the police Roundhouse) had to be moved out to the hallway because harmful asbestos was found in the room's ceiling. In order to facilitate the cleanup, the move was necessitated.

Also, during Election Day if you live in the Philadelphia area, you might want to tune in the city Department of Public Property frequency of 453.725. During primary and general elections, the election staff can be heard operating on the channel all day and night long.

The city is notorius for having election problems and irregularities, so it might be worth listening to.

During the launch of the space shuttle Columbia, Home Box Office carried the launch in a unique way.

Instead of all the gibber-gabber and happy talk on the networks, HBO carried the pool camera shots and for audio carried what appeared to be landline-based communications between the spaceship and launch control. Also, the occassional reports that the networks were fed by "Shuttle Launch Control" were carried on HBO over the communications audio.

It was kind of like having a scanner at Kennedy Space Center.

SCANNER ASSOCIATION OF NORTH AMERICA

The RCMA is happy to reprint this Emergency Bulletin for action by our members in the Philadelphia Area. We thank Robert Hanson of SCAN for bringing it to our attention.

SCAN™

Suite 1212 • 111 E. Wacker Drive • Chicago • Illinois 60601

May 19, 1981

URGENT EMERGENCY BULLETIN!

Dear Philadelphia SCAN Member:

As a member of SCAN who lives within the city limits, you are in a unique position because you reside in the only municipality in the entire U.S.A. that has an ordinance which makes it illegal to sell, trade, own or use any receiver capable of receiving police or fire calls. That's right, use or possession of a scanner within the city limits (except by certain officials and the news media) is illegal! It's true that the law has rarely been enforced, but the fact is that this obscure ordinance provides for confiscation of your scanner radio by the police . . . just because it's in your possession!

Enforced or not, we feel such a law is an affront to every citizen who owns or would like to own a scanner. Enacted over 13 years ago, the law is outmoded and ignores the many contributions being made daily by scanner owners to the law enforcement community. It puts some of the police and fire department's most ardent supporters in technical violation of law.

It's time for a change! Councilman John Anderson agrees and has introduced Bill No. 615 to correct the situation. The Bill is now being considered by the Committee on Public Safety, Councilman Tayoun, Chairman. They -- and your own Councilman -- need to hear from you and your neighbors who support this change. Without an outcry of citizen support now, we may lose this chance to have a change made!

We have enclosed a suggested format, which you can use as the basis of your letters of support. We urge you to enlist your friends and neighbors, scanner enthusiasts or not, to join this effort. Timing is critically important. Next week may be too late. If you can't write, call your Councilman on the phone TODAY and ask him to support Bill No. 615 to allow scanner radio use in Philadelphia.

Let's make the traditional American right of free access to the airwaves universal across the entire U.S.A. by changing the Philadelphia law.

Yours truly,

Robert A. Hanson

Robert A. Hanson
Managing Director

Sponsored by Electra Company as a public service

Dear Councilman _____:

I am writing to urge your support of Bill No. 615, currently being considered by the Public Safety Committee.

That Bill would give me the right to own and use one of the popular "scanner" radios for my own personal information and news. It is a right that citizens of every other city in the U.S. enjoy, and I feel strongly that we should be permitted by law to do so also.

While scanner radios have been openly sold in stores here for years, and the ordinance is obviously rarely enforced, I think it is unwise and unjust to subject otherwise law-abiding citizens to possible violation of this obscure ordinance. Scanner radio owners are often the most informed and biggest boosters of their police and fire departments. I urge you to support Bill No. 615 and clearly give the citizens of Philadelphia the same rights as those in the suburbs and elsewhere in the U.S.A.

Members of the City Council who sit on the Public Safety Committee include:

NAME	REPRESENTING	ADDRESS
James J. Tayoun - Chairman	First District	404 City Hall
John C. Anderson - Bill Sponsor	At Large	488 City Hall
Lucien E. Blackwell	Third District	408 City Hall
Augusta A. Clark	At Large	580 City Hall
Harry P. Jannotti	Seventh District	590 City Hall
Brian J. O'Neill	Tenth District	586 City Hall
John F. Street	Fifth District	584 City Hall
Anna C. Verna	Second District	403 City Hall

Other members of the Philadelphia City Council are:

Beatrice K. Chernock	At Large	594 City Hall
David Cohen	At Large	588 City Hall
Al Pearlman	At Large	562 City Hall
Francis Rafferty	At Large	484 City Hall
Joan Spector	At Large	582-B City Hall
Joan L. Krajewski	Sixth District	486 City Hall
Joseph E. Coleman	Eight District	406 City Hall
Louis C. Johanson	Ninth District	595 City Hall

To the editor:

In the April RCMA Newsletter Thought Waves column, you say the intermod is cleared up on high-band channels. Not so! I still hear the annoying tones and "This is WB6FRO" coming in anywhere on high band--146-174 MHz. I use a Bearcat 210 (No. 436278, Mfg. No. C7845) with a coathanger groundplane antenna 30 feet high.

WA6PPS still is on 147.900 and paging still is on 158.700. I live in the San Fernando Valley, near the Veterans Administration Hospital in Sepulveda. The intermod comes only when both stations are on the air. I hear more than WB6FRO, but his call letters stay in my mind.

My Bearcat has an IF of 21.6 and other than that, it picks up everything and works OK. I am looking forward to a new one with aircraft--a 250.

Bob Ashlock (CA-LA-296)
Van Nuys, California

To the editor:

I would just like to comment on the Betty Bearcat frequency director, which I just purchased this past week to complement our frequency data.

I find that this directory leaves much to be desired and is far less than completely accurate. It also does not give the particular uses of certain frequencies, though I'm aware this is not always possible anyway.

I have found that Police Call is by far the leader in information content, and through its readers and I'M sure RCMA members (including myself) any corrections and information on specific uses of frequencies will be forwarded to its editor, Mr. Gene Hughes. I've noticed a vast improvement in past years, though Police Call has always met with my approval for an accurate and up-to-date resource file for a communications section of an organization.

At current prices, Police Call ($6.95) far outweighs the cost of Betty Bearcat ($12.95).

I suggest that members thoroughly check out the contents of any frequency directory before you buy it; this way you hopefully won't get stung, especially at a cost like Betty Bearcat runs.

Good luck to RCMA and we hope to continue to be on the roster of your fine organization.

Jeff E. Howell (KY-023)
Executive Director/Cmctns Officer
Lifeline Search and Rescue
Milton, Kentucky

To the editor:

I am in the process of digesting my first issue of the RCMA Newsletter. It shows the promise of being worth the money.

Obviously there are a number of comments pro and con on Bearcat scanners. After experiencing both real and (perhaps) imagined problems with my Bearcat 220 over at least a year's period, and after two returns to the factory for service, Bill Belles, service engineer, replaced my 220 with a new (and personally tested) unit without any hassle.

This kind of policy, so rare in the electronics industry, is so satisfying. It should be made known to all the brethren.

John M. Rathsburg (MI-???)
Detroit, Michigan

Miscellany

RCMA, P.O. Box 341,
Ringoes, NJ 08551

NOTICE: Handler Enterprises is now out of business and the Radio Communications Guide and the World Radio Communications Guide are out of stock. Steven Handler requests that no further orders be send to him for the books.

Aircraft

Major Ron Hammer, Editor

Send private, commercial, firefighting, and law enforcement aircraft frequencies of interest in the 108–136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft, plus questions, articles, and tips related to aircraft monitoring to: Major Ron Hammer, 821 Elisa Way, Roseville, CA 95678.

Hey all you kiddies out there in scanner-land! Here it is the 4th of June and already 100°. Fortunately none of my hobbies preclude drinking a beer whilst I persue them. (I am not recommending that--only confessing that I do it.)

I know that all 2,500+ avid readers are dying to hear the conclusion to the on-going saga of my AM-914/TRC UHF-band converter. Well--it doesn't work. At least I don't think it does. By the time I get home from work to try it out, the military aviators (a sensible lot) have all quit flying (and talking) for the day. From my depressed location (geographically, not economically) I cannot receive either Mather or McClellan AFB ATIS broadcasts (continuous), so haven't yet been able to tell if no one is talking, or whether I have some equipment problems. (Or both!)

After a masterful job of figuring out my transformer-converter, putting it in a big, blue (surplus) metal box and rigging it with all kinds of switches and lights (I'm a pilot, remember) it puts out the advertised 6.3VAC and 150V DC. The rectifier that I used to get the 150VAC the transformer puts out to be DC is Radio Shack's #276-1173 which is a full-wave bridge rectifier (whatever that means.) Anyway it does its job--for $1.89 (up to 400 volts). Maybe I'll have to load the whole mess into my Wagoneer and haul it out to one of the base transmitter locations. So--stay tuned! Will Ron Hammer get his UHF set working before he has to give up and buy one of Bob Grove's forthcoming new rigs!? (This is somewhat embarrassing, you know.) Well, half the fun is in rounding up the parts and building the darn things. Whether they work or not is anti-climatic, right?

I see in the May, 1981 issue of The Lowdown (Longwave Club of America, P. O. Box 33188, Granada Hills, CA 91344) that Steve Handler's Handler Enterprises, Inc. is shutting down. So, for those of you who did not pay attention the several times I recommended his neat Radio Communications Guide--you may be out of luck. I see Radio Shack has a new (blue) edition of Police Call Directory out. If you don't have one, they are worth the $6.95. Whether it is worth that for a 1981 update over the 1980 issue is another thing. "The Cockpit" Division of Avirex Ltd has a new address for their authentic aviation gear: 627 Broadway, New York, NY 10012. How about outfitting your sweet-thing in genuine camoulflage, rip-stop poplin flight togs while you demonstrate your daring-do with your aviation-band scanner! I can remember (well) certain combat pilots escorting certain young Thai ladies to the Officers Club all decked out in the "tiger-stripe" camoulflage of the day. It sort of relieved the boredom of combat flying. I've digressed from radio, again. Sorry.

Speaking of digressing--it is not easy to just keep writing on and on about 118-136 MHz month after month. If you'll just send in stuff even half-fast-typed I will run it forthwith, as received. I get a lot of mail asking for the tower frequency for Two-Egg, Florida (there is such a place--I went to primary flight school near there), etc. I can go get Kneitel's Air Scan or some such and list the frequency, but if I print that stuff wholesale he'll have me put in jail for plagerism. I've stated over and over--most any airport that has an office of any kind has aero publications for sale. I just bought a new San Francisco Sectional Aeronautical Chart (Scale 1:500,000) that has (as one might suspect) a plethora of aviation data on it--including some frequency data. It covers most of Northern California--for two bucks. The venerable Jeppesen-Sanderson, 55 Inverness Drive East, Englewood, CO 80112 claims themselves to be the "world leader in flight information services and supplies" (commercial) with a freebee catalog. Sporty's Pilot Shop, Clermont County Airport, Batavia, OH 45103 has for years offered an extensive line of aviation related stuff--books, publications, ad infinitum. Pan American

Navigation Service, Inc., 16934 Saticoy Street, P. O. Box 9046, Van Nuys, CA 91409 offers a similar line. In recent past issues I've listed just oodles of addresses for catalogs, etc. to send for to enhance your knowledge and enjoyment of the hobby. The RCMA now offers back-issues. If you are just starting out, send for a few and police up on some of my (and others) past pearls of wisdom. We've all got to start sometime. I just started with my first issue one year ago this month (June). I have, however, now read every word ever published in the Aircraft Column since day one. If you can't read them all, at least try the 1981 issues.

Are there any girls (women, persons) into aircraft band monitoring?? I see a few (very few) girl-type names in the complete membership list I get as a editor, but never hear from any. At one time I had no less than 23 young ladies (persons) working for me as ATC controllers. Most were pretty good--many were excellent--so I know they talk on radios as a job. Do any do so as a hobby? One of my more favorite female-controllers later wound up going back to college with me, married some dude with a hangar full of airplanes and is now becoming an accomplished aerobatic pilot. And to think how I use to dazzle her by "strafing" radar sites in a VT-29 on the little islands south of mainland Japan! (Ha) Then there was one of my tower controllers known as "Boom Boom" who "streaked" a SAC KC-135 in-flight. I even got in trouble over that and I wasn't even there! (Unfortunately.) See, if you don't send me stuff to print, I'm just going to go on relating these tales.

Some mail I did get: Edgar L. Vest (VA-026) from Dublin, VA sends reception reports of Civil Air Patrol (CAP) chatter on 171.525 in his area. I know I'm suppose to only list air traffic type communications, but what are they going to do--cut my pay? I haven't seen anyone racing forward yet to take over this column. Frank Stroncek (PA-130) sent for some of my old Radio Facility Chart pages and some aviation data on the Greater Pittsburg and Allegheny County airports. Bryan Cunniffe (NY-072) also sent for some of the old, 1958 data. Some people find historical things interesting, some don't. Alan Leder (NJ-084), a frequent contributor, wrote a very nice note concerning the recent death of my father. Thanks, Al. I can bet that the Newark airport authorities and airlines are "reluctant" to give out all of their frequencies! It never hurts to give'em a try, I guess. The RCMA Treasurer writes: Your membership has expired, Hammer. Pay up or get out of town. (You mean I don't get a free membership for slaving over this typewriter for days on end!) Where else can you read stuff like this for only a dozen dollars a year? Chris Orvin (SC-012) asks for a bunch of frequencies for his area. Really, Chris, they are as easy for you to get as they are for me. Most of my data are for my area. As to what the range of your Bearcat 300 and 35 foot high Archer antenna is--that depends on many variables. Living in a hole as I do here I can get high altitude aircraft transmission up in Oregon from Seattle Center, some from L. A. Center down in Southern California and occasionally (but rarely due to the Sierra Mountains) something from Salt Lake Center. I get very little ground-to-air transmissions from the local bases/airports. I think my "fruitless Mulberry" tree absorbes everything that doesn't come down at a 45° angle!

Phew! Time for a paragraph, huh? Edward C. Soomre (MA-017) living in Northboro, MA says he picked up a close-out, flea-market sale Regency Digital Flight Scan for $75 which ain't too shabby. Ed works for Digital Equipment Corp. that operates nine helicopters, a few fixed wing and a jet. (Their own little air force.):

121.75 MHz	Boston Helicopter Control @ Logan Airport (Comm w/ radio traffic 'copters and Digital's fleet.)
123.025	Digital "company" air-to-air (helicopters).
123.05	Digital "company" air-to-ground (helipad sites @ company plants.
130.35	Digital to their Helicopter Aviation Center & Office @ Hanscom AFB, Bedford, Mass.
131.05	Digital 'copters coordination with WBZ radio helicopter traffic reports.

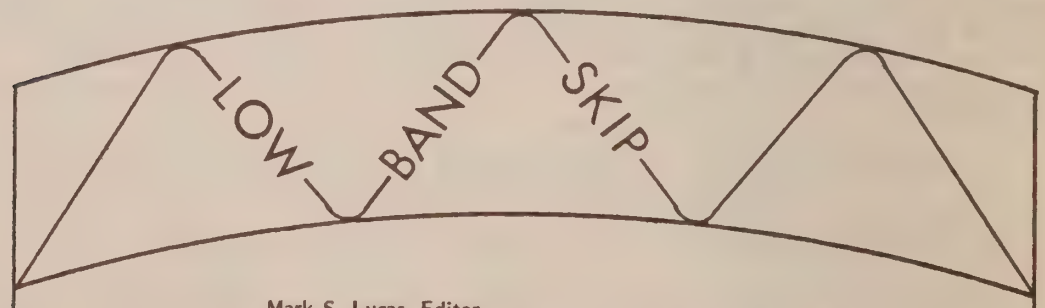
Those are the type freqs I like to get to print as opposed to "Clyde Tower is on 126.2". Eddie Muro (NY-041), now age 16 years & 3 months says he has been into scanners since he was a little kid. He wants to know what airline companies use the call signs KEA5, WGC7, KUO7, WHN9, WBZ7, and KFWG on various Arinc licensed freqs between 128.85 and 131.55 (presumably) in his New York (Woodmere) area (P. O. Box 318, Woodmere, NY 11598 if anyone can help him.) Ed's envelope is marked "Ed's Electronic Shop" which might help to explain Eddies early interest in radio. Thanks for writing, Eddie.

Rick Prelinger (CASF-002) now of New York City sent me an offer to subscribe to some federal frequency data. I'm not too thrilled at paying $35 for such data, but as he notes--the more that subscribe, the less the cost. Anyone interested, contact Rick at P. O. Box 438, Canal Street Station, NY NY 10013. Radio West sends a new "Update". They now sell Bearcat Scanners along with their other extensive radio-listener line. Their new address is 2015 South Escondido Blvd., Escondido, CA 92925. They've even got some nice radios in the $1,000+ range for the more affluent. Speaking of good deals--I am offering my almost-untouched-by-human-hands MFJ-1020 with box and owner's manual for a mere $60 UPS postpaid anywhere in the U. S. of A. Write MFJ Enterprises, Inc., P. O. Box 494, Mississippi State, MS 39762 and see that they retail out for $79.95 plus $4.00 shipping. This little device is a tuned indoor active antenna and/or preselector for you 300 KHz to 30 MHz utility listeners. (Sorry for this little commercial.) Radio Amateurs Callbook, Inc. has their 11th edition World Atlas and maps available for $4.50 for the whole package. I've been to about forty countries, but even so, I can't remember where they all are. Their "Great Circle" map of radio bearings is particularly neat.

Mike Agner (MA-066), Editor of "Antennas & Accessories" for the North American Short Wave Assn. wrote a very nice response to my plea for info regarding the monitoring of radio transmissions with the oscilloscope or spectrum analyzer. I'm not sure I understand all of it yet, Mike, but thanks for the help. I tried digesting the Tab Book (No.777) "Understanding & Using Modern Electronic Servicing Test Equipment" by Charles M. Gilmore, but found it to be of little help to the radio monitor-listener. I have Gordon P. Nelson's address in Watertown, MA. He use to write some good stuff on such monitoring.

The prepared lists at the end of this months verbage is from Brandt I Niemuth (IL-084) from Rosemont, IL. It is a good list, but may not reproduce too well. You may have to really squint. Thanks for the data, Brandt. In closing, let me say this--my daughter and her husband marched in the other day and announced that I am going to be a grandfather in January or so. I view that with mixed emotions. It sure shoots the hell out of my "still-just-a-boy-myself" act. I hope the little bugger likes radios and airplanes and stuff. What if it's a girl!? Catch you next month. Hey--if you want to see a really good movie with an unending array of mechanical equipment (the set must have cost a zillion dollars), go see "OUTLAND" with Sean Connery. Their comm gear is sophistcated! (There's some neat equipment in "Nine-to-Five" starring Dolly Parton, too, but it isn't mechanical equipment.)

continued



Mark S. Lucas, Editor

Send reception reports relating to distant stations received in the 30–50 MHz band, plus any Low Band DXing tips, comments, or articles to: Mark S. Lucas, P.O. Box 462, Lancaster, OH 43130. If you need a Low Band skip reception report form, send an SASE with your request.

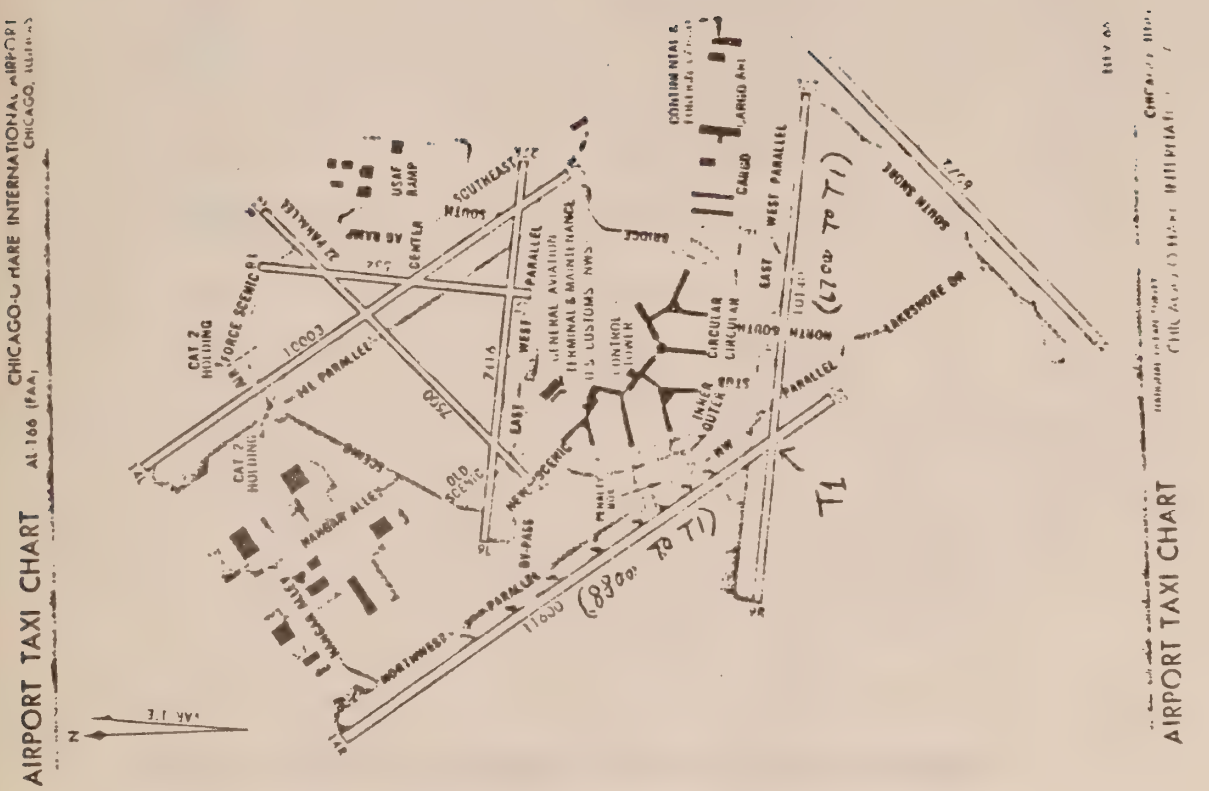
NO COLUMN THIS ISSUE

ARINC FREQUENCIES/ROUTES
Grand Forks
Minneapolis
Sioux Falls
Escanaba
Milwaukee
Muskegon
Saginaw
Flint
Lansing
Grand Rapids
Detroit
Toledo
CHICAGO
South Bend
Ft Wayne
Columbus
Dayton
Cincinnati
Indianapolis
Springfield
Cedar Rapids
Des Moines
Moline
Omaha
Lincoln
Kansas City
St Louis
Evansville
Wichita
Tulsa
Fort Smith
Little Rock
Memphis
Nashville
Knoxville
131.8
130.45 C
129.4 C
129.4
131.4 C
129.25
129.35 N
130.4 C
129.45
129.0
130.6
130.25 C
131.65
131.2
129.35 C
131.4 C
130.6 C
129.0 C
130.45 C
130.45
129.15
129.15 C
129.25
131.65 C
131.2 C
130.3 C
131.6 C
130.2

461.05	KOX 622	ATR Aviation Inc	Chicago
462.65	KAB 2297	Air Wisconsin	Chicago
464.825	KDY 260	Allen Aircraft	Elk Grove
460.775	KDM 873	American Airlines	Chicago
151.775	KZ 8821	Aviation Ctr Enterprises	Schaumburg
460.8	KSC 890	Braniff Airlines	Chicago
462.55		Butler Aviation	Chicago
151.625	KH 2433	Chicago Helicopter Airways	Chicago
154.57	KE 2102	Continental Airlines	Chicago
460.85	KRC 222	Continental Airlines	Chicago
461.25	KKC 584	Continental Airlines	Chicago
460.825	KSI 641	Delta Airlines	Chicago
460.825	KSI 674	Delta Airlines	Chicago
460.725	WXC 575	Du Page Aviation Corp	West Chicago
460.75	KUB 854	Eastern Airlines	Chicago
460.875	KYT 873	Flying Tiger Line Inc	Chicago
151.805	KVO 554	Hairline Aviation	Joliet
151.865	KKO 701	Little Egypt Flying Svc	Marion
463.825	KQR 796	Lockheed Aircraft Corp	Chicago
151.835	KQP 745	Marriott In-Flight Svc	Schiller Park
460.7	KKA 570	Mexicana Airlines	Chicago
151.925	KQM 921	Midstate Airlines Inc	Chicago
151.625	KM 8741	Midwest Helicopter Airways	Lyons
460.875	KVJ 494	Northwest Airlines	Chicago
460.85	KMB 481	Ozark Airlines	Chicago
464.525	KAZ 826	Ozark Airlines	Chicago
464.425		Republic Airlines	Chicago
460.675	KUK 873	Trans World Airlines	Chicago
461.75	KDR 316	Trans World Airlines	Chicago
460.65	KTE 878	U S Air (Alleghany)	Chicago
460.7	KQQ 578	U S Air (Alleghany)	Chicago
42.98	KM 5537	United Airlines	Chicago
460.725	KAX 758	United Airlines	Chicago
462.825	KBX 725	United Airlines	Elk Grove
464.325	KCJ 922	United Airlines	Chicago
464.375	KCJ 923	United Airlines	Elk Grove
464.5	KGL 939	United Airlines	Chicago
464.775	KRY 386	United Airlines	Chicago
467.75	KO 5169	United Airlines	Chicago
467.75	KQ 5294	United Airline	Chicago
467.75	KX 2456	United Airlines	Chicago
467.775	KD 9169	United Airlines	Chicago
467.775	KX 2456	United Airlines	Chicago
467.8	KD 9169	United Airlines	Chicago
467.8	KX 2456	United Airlines	Chicago
467.825	KD 9169	United Airlines	Chicago
467.825	KQ 5294	United Airlines	Chicago
467.85	KD 9169	United Airlines	Chicago
467.85	KX 2456	United Airlines	Chicago
460.85	KVL 606	World Airways	Chicago

128.850	Eastern	O'Hare
129.100	Trans World	O'Hare
129.200	American	O'Hare
129.300	United	O'Hare & Midway
129.500	Delta (Atlanta)	O'Hare
129.600	Delta	O'Hare
129.700	Chicago Helicopter Airways	O'Hare
129.750	Int'l Charter Flight Operation	O'Hare
129.950	Northwest	O'Hare
130.050	U.S. Air	O'Hare
130.100	U.S. Air	O'Hare

Frequency listing continued on page 14.



AIRPORT	O'HARE	MIDWAY	MEIGS	DUPAGE	PALWAUKEE	AURORA	GARY	[illegible]
A.T.I.S.	135.15	120.05		124.8	124.2			
TOWER	118.1 N 120.75 S	118.7	121.3	120.9	119.9	126.3	126.3	126.[illegible]
GROUND CONTROL	121.9 N 121.75 S	121.7		121.8	121.7	120.E	121.9	
CLEARANCE DEL.	121.6	121.85						
APPROACH CONT.	119.0 EAST 125.7 WEST	119.35						
DEPARTURE CONT.	125.0 - 127.4 ? 125.4 - WEST(S) 134.4 - North/EAST	118.4						

O'HARE
GATES 129.2 129.05
129.3 129.85
129.6 128.85
131.3 130.9

CHICAGO RADAR 126.8
CHICAGO INFO FLIGHT WATCH 122.0

130.700	Air Wisconsin & Mississippi Valley	O'Hare
130.500	U.S. Air	O'Hare
130.550	Braniff	O'Hare
130.750	Eastern (Atlanta)	O'Hare
130.850	Continental	O'Hare
130.900	Republic	O'Hare
131.050	Pan Am (New York)	O'Hare
131.100	Air Canada	O'Hare
131.150	Skystream Airlines	Meigs.
131.300	United	O'Hare
131.500	Midstate Air Cummuter	O'Hare
131.750	Republic	O'Hare
131.900	Northwest (Minneapolis)	O'Hare
131.950	Beckett Aviation & Kemark, Inc.	Midway
132.000	Air Illinois	Meigs

Forgot to mention that there will be some frequency additions and deletions because of airline deregulation and also because my information is not the most current. Ozark is "probably" 129.850.

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs, send a self-addressed, stamped business size envelope with your request to the address below.

For an annual subscription to the ANARC Newsletter, send $5 to Joe Barr, 1500 Bunbury Drive, Whittier, CA 90601. ($8 overseas subscription.)

DX-Calendar

July 17/19 ANARC Convention in Thunder Bay, Ontario.

July 30/ Aug 2 Worldwide TV-FM DX Association Convention-- Oklahoma City, OK Send SASE for details to John Zondlo, 1802 N. Rockwell Apt 107 Bethany, OK 73008

Sept 5/7 National Radio Club convention in Rockaway, NJ

Sept 19 Newark News Radio Club General Membership Meeting-- Monouth Room Hilton Gateway hotel Newark, NJ. For details send SASE to NNRC, P.O. Box 539, Newark, NJ 07101

The ANARC NEWSLETTER is a monthly publication of the ANARC, and is available for $5.00 in North America, US$8.00 elswhere. Sample copy 50¢ or 3 IRCs. Send requests to ANARC, 1500 Bunbury Drive, Whittier, CA 90601 USA

The 1981 ANARC/HAP DXing guide is due out soon.

? Beginners ?????? Corner

Have a question? If you are a new scanner listener and don't understand something about monitoring that almost everyone else seems to understand, send in your question. When possible, your question and the answer will be printed. No answers will be sent by return mail. Your name will not be printed. Write to: David E. Crowley, 7234 Balson Ave., University City, MO 63130.

Q. Did anyone submit a good question for August?
A. No
Q. What will you put in the column then?
A. I'll just have to make something up.
Q. Like ?
A. Tell me about amateur repeaters.
Q. But your're not a Ham.
A. True, but I bought this little book and it says .....,

So with apologies to our readers who are Amateurs, here is a brief introduction to FM repeaters courtesy of: The ARRL Repeater Directory, 1981, $1.00. The growth of FM repeater operations in the Amateur bands has been phenomenal, particularly in the frequency range from 144 to 148 MHz, known as the "two-meter" band; a radio wave at 150 MHz is very close to two-meters in length. The FCC permits the use of narrow-band FM in any part of this frequency range, but advisory groups to the ARRL (American Radio Relay League) have suggested the following band plan for FM repeaters:

144.600 - 144.900	Mhz	FM repeater	inputs
145.200 - 145.500	"	"	outputs
146.010 - 146.370	"	"	inputs
146.400 - 146.580	"	"	simplex
146.610 - 146.970	"	"	outputs
147.000 - 147.390	"	"	outputs
147.420 - 147.570	"	"	simplex
147.600 - 147.990	"	"	inputs

The repeater's receive (input) frequency is separated from it's transmit (output) frequency by 600 kHz (0.6 MHz). For instance, the the repeater tranmitting on 146.940 MHz is receiving signals from the mobile or hand-held unit on 146.340 MHz. The " 0.34/0.94" pair is used in almost all metropolitan areas, so put 146.940 in your programmable scanner now, since the sound of a repeater will make excellent musical accompanyment to this inspired prose.

A repeater is usually situated on a tall building or mountain top, and consists of a sensitive fixed-frequency receiver, a transmitter, duplexing filters to keep the simultaneous receive and transmit operations free from mutual interference, a logic section to control the timing functions and an "IDer" which emits the call-sign in morse code each time the repeater is keyed, or every few minutes not more than ten. In addition, the FCC requires that the repeater can be shut down, either by a control operator over a leased telephone line, or by automatic equipment when any of its monitored parameters exceeds legal limits. Many repeaters also have an auto-patch through which amateurs with Touch-Tone pads on their radios can connect to thepublic switched telephone network. Both the FCC and local repeater clubs have stringent regulations against business use of the auto-patch.

Repeaters are provided either by individual amateur operators or, more commonly, by repeater clubs for which one of the members acts as trustee. Dues from members of the club support the costs of the repeater such as transmitter and antenna site leasing, maintenance, etc. An "open" repeater can be accessed by any amateur transmitting on the appropriate input frequency, although local clubs may reserve some of its "open" repeaters for use by members only, while leaving at least one of its repeaters, such as "0.34/0.94" open to non members such as amatuers passing through town or visiting. Closed repeaters, of which the majority are located on the west coast, require a given sub-audible tone, or tone-burst sequence to activate the repeater.

In a typical repeater sequence, an amateur may transmit on the rpeater's input frequency, saying, "This is WCØAAF monitoring." The repeater retransmits this message on its output frequency, superimposing on the audio signal the repeater ID in Morse code, and then shuts down when the input carrier from WCØAAF ceases. Another amateur will answer giving his/her call sign, and conversation will go back and forth with each operator waiting a short time after the end of the repeater's transmision, so that another station may join in. After a time limit such as three minuts, the repeater will not continue an uninterrupted transmission , and will announce its shut-down with an audible beep. At this point all parties to the conversation delay new transmission until the timing circuit has recycled.

Using the suggested allocation scheme list above, one can determine the common input/output pairs by allowing a 30 kHz channel spacing and a 600 kHz split or "offset" For example:

input (MHz)	output(MHz)
146.010	146.610
146.040	146.640
.	.
.	.
146.340	146.940
146.370	146.970
147.600	147.000
147.630	147.030
147.660	147.060
.	.
.	.
.	.
147.990	147.390

Note that below 147.000 MHz inputs are 600 kHz below outputs, while above 147.000 MHz, the inputs are 600 kHz above outputs. Above 146 MHz channel spacing is 30 kHz, but in crowded areas,"splinter" pairs are interleaved with the 30 kHz pairs, producing the following pattern of allocations:

input	output
146.010	146.610
146.025	146.625
146.040	146.640
146.055	146.655
.	.

Stations located at close range use the non-repeater simplex mode, leaving the repeater to more distant stations. The most common simplex frequency is 146.520 MHz. This should be about enough for one dose of amateur repeaters, especially from a non-Amateur. Hams, let me know about mistakes in this material, and I'll publish the corrections in the next newsletter. And you other readers, lets have more questions, so I won't be forced to propound on topics about which I am even less well imformed than on the 2-meter repeaters.

MONITORING & THE LAW

EDITOR WANTED!

We need a new Monitoring and the Law column editor. This person should have some familiarity with monitoring laws and it would be desireable if he/she had a collection of them from around the nation. This editor would be required to generate some information for the column as well as organize input from the general membership. If you are interested, please TYPE a letter telling about yourself and qualifications to: RCMA Managing Editor, P.O. Box 341, Ringoes, N.J. 08551

Business, Etc.

Chuck Gysi, Editor

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/ hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to: Chuck Gysi, P.O. Box 341, Ringoes, NJ 08551.

Send in all those frequencies you find while on vacation this summer. It will help us from going dry in the fall!

Also, please note the new address to send information to this column: P.O. Box 341, Ringoes, NJ 08551.

News Media/Film

WASHINGTON AREA NEWS MEDIA

From Rick Prelinger (CA-SF-002):

151.655	KFT 684	National Geographic Society
154.625	KWB 585	CBS (also KWR 402) paging
173.275	WXU 785	Action Movie News
173.275	KDU 887	United Press International
173.275	KDG 633	Washington Star
452.975	KBC 912	The Wall Street Journal
452.975	KZP 511	United Press International
452.975	WSH 608	Mobile Video Service
453.000	KVS 951	United Press International
453.000	WXU 784	Action Movie News
464.775	WYF 547	The Washington Star
496.0125	KXS 842	The Washington Post
496.1625	KNQ 228	Metro Traffic Control
467.800	KU 4600	Byron Motion Picture (3 watt)
464.225	KUD 613	Army Times Publishing Co./Bethesda, MD
467.750	KG 3551	National Geographic Society (DC) 3 watt
154.570	KV 8847	National Geographic Society (MD) 3 watt
464.950	KUD 613	Journal Newspapers/Arlington, VA

Business

ALASKAN FOREST PRODUCTS COMPANIES

From Larry Smith (MI-001):

48.660	KDU854	SILVER BAY LOGGING COMPANY	BM	SITKA
48.720	KXM445	LOUISIANA-PACIFIC CORP.	BM	SEWARD
48.760	KVB623	TRANSCONTINENTAL LOG & EXPORT	BM	KETCHIKAN
48.840	KXF860	TYONEK TIMBER, INC.	BM	ANCHORAGE
49.220	KWA815	HOLLIS LOGGING COMPANY	CO	POLK INLET
49.320	KWA980	SITKA COMMUNICATIONS, INC.	CO	SAW MILL CREEK
49.380	KXQ357	TYONEK TIMBER, INC.	MR	ANCHORAGE
49.420	KWA734-5	KETCHIKAN PULP COMPANY	BM	THORNE BAY
49.420	KWA732	KETCHIKAN PULP COMPANY	BM	WARD COVE
49.460	KWB226	KETCHIKAN PULP COMPANY	BM	PETERSBURG
49.500	KJQ383	ALASKA FOREST PRODUCTS, INC.	BM	HAINES
153.050	KUQ932	GILDERSLEEVE LOGGING COMPANY	BM	KETCHIKAN
153.050	KWA931	GILDERSLEEVE LOGGING COMPANY	BM	WHALE PASS
153.095	KYQ710	ALASKA LOGGING CONFERENCE	MR	SITKA
153.110	KFJ381	ALASKA LOGGERS ASSN.	MR	RATZ HARBOR
153.125	KYS678	LOST VALLEY TIMBER COMPANY	MR	WRANGELL
153.155	KVJ723	WINSENBERG LOGGING COMPANY	BM	TUXEKAN IS.
153.245	KVK259	SOUTH COAST FOREST PRODUCTS	BM	RATZ HARBOR
153.320	KQT816	TUXEKAN LOGGING	BM	TUXEKAN IS.

157.740	KBA583	LOST VALLEY TIMBER COMPANY	BM	WRANGELL
158.280	KV176	ALASKA LOGGERS ASSN.	CO	CAPE POLE
158.325	KVX260	SOUTH COAST, INC.	MR	RATZ HARBOR
158.460	KBI383	TYLER BROS. LOGGING COMPANY	BM	SITKA
462.525	KV3077_	CHANNEL LOG CORP.	M	TUXEKAN IS.

Motor Carrier

CONNECTICUT MOTOR CARRIER

From Rick Prelinger (CA-SF-002):

44.52	KCH602	Connecticut Transit (Hartford)
44.56	KCH601	Connecticut Transit (New Haven)
464.800	WXJ220	Connecticut Para Transit (New Haven)
463.600	WXW225	Federal Express (Seymour)
453.425	KAN479	Wallingford Transit (Wallingford)
475.4625	KXN421	Westport Transit District

Mobile Phone/RCC

NEXT MONTH: An update on AMPS 800-MHz mobile telephone service.

Utility

MEMPHIS AREA UTILITIES

From Larry VanHorn (TN-014):

451.050	Light division of Memphis Light, Gas and Water (MLGW)
451.150	Light division of MLGW
451.075	Water division of MLGW
451.125	Water division of MLGW
451.250	Gas division of MLGW
154.040	Raleigh Utility District

Security

ATLANTIC CITY UPDATE

(Copyright 1981 by Chuck Gysi)

From Chuck Gysi (PA-005):

Licensed Casinos

Resorts International Hotel-Casino

464.675	KKZ 780	Security
464.275	WZC 301	Paging
465.000	WXK 428	Paging (licensed to Intertel)
154.570	KA55459	3-watt portables
461.1125	KA53167	Surveillance (licensed to Intertel)

Caesar's Boardwalk Regency Hotel-Casino

461.925		Paging
461.950		Security
461.8625	KA68428	Surveillance

Bally's Park Place Hotel-Casino

463.600	WZW 208	Paging and Security
464.100	WZW 207	Security
462.800	WSY 860	Paging
464.325	KA65801	Surveillance
464.575	KA69524	Surveillance

The Sands Hotel & Casino (formerly The Brighton)

463.325		Security
463.500	WZP 213	Unknown use

Golden Nugget Hotel-Casino

464.125		Security
464.375	KA69852	Surveillance
464.200	WRZ 248	Unknown use

Playboy Hotel and Casino
463.825 WSK 962 Unknown use
Harrah's Marina Hotel-Casino
No known frequencies at present.
Casinos under construction
Holiday Inn Marina Casino
462.800 WSZ 911 Paging
463.425 WQC 788 Security
Penthouse Boardwalk Hotel-Casino
464.150 WSI 935
Del Webb's Claridge Hotel-Casino
464.600 WSZ 971
464.350 WSZ 969
Ramada Inn Tropicana Hotel & Casino
464.825 WXD 645
Hotels
Ramada Inns Hotel
464.725 WQD 964
Shelburne Hotel
151.775 KST 942
Midtown Ltd. (Motor Inn?)
151.715 WXE 318
Holiday Inn of Atlantic City
35.90 KLW 832
Atlantic City Resort Motel Corp.
151.655 KVE 851
The Warwick
151.685 KEZ 246
Princeton Hotel
154.515 KYR 813
The Phoenix
464.800 WYQ 749
Unknowns monitored--need help IDing
464.750 Hotel security
461.100 Hotel security
Miscellaneous
Marina Associates (possibly Harrah's Casino)
463.750 WSZ 913
South Jersey Airways Inc.
151.955 KWA 681 Bader Field
City of Atlantic City
157.470 KUU 819 Tow trucks
New Jersey Casino Control Commission
460.175 WXK 657 Repeater, 110 mobiles
460.250 WXK 657 Repeater, 5 mobiles, 150 handhelds
Beach Trams
154.540 WRF 651
New Jersey Armored Car Service
154.570 KD 3269 3-watt portables
Wading Pines Campground/Pleasantville
154.600 KA61773 3-watt portables

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WASHINGTON SECURITY UPDATE

From Joe Lewis (MD-015):

The following information is an update to Rick Prelinger's list in the May newsletter:

I worked for Globe Security and they told me they are not on 151.865 anymore, as far as I can find.

Also, the following security companies listed in May are no longer in business: Metro Protective, Eagle, Hondo, Metropolitan Detective, McGuire and Leonard.

School

ILLINOIS STATE UNIVERSITY SYSTEM

From Bill Blomgren (IL-020):

453.900	Ch. 1	Police (repeater)
453.650	Ch. 2	General Services (repeater)
453.600	Ch. 3	Maintenance (repeater)
453.700	Ch. 4	County Civil Defense (repeater)
453.875	Ch. 5	Special Events (repeater)
462.825	Ch. 6	Paging
35.90	Ch. 7	Weather Alert
155.475	Ch. 8	ISPERN

Unit numbering:

U5-01 to U5-09	Environmental Health and Safety (base--"Safety Office")
U5-10 to U5-59	University Police (base--"Illinois")
U5-60 to U5-69	Parking Services (base--"Parking")
U5-70 to U5-79	Special Operations (No base)
U5-80 to U5-85	Media Services (base--"Media Services")
U5-86 to U5-89	Assault Prevention and Security (base--"Escort base")
U5-90 to U5-96	Athletic Operations (No base)
U5-97 to U5-99	Entertainment Committee (No base)
U5 plus operator's name	Physical Plant (base--"Physical Plant" or "Heating Plant")

Freak Freqs

THE MEADOWLANDS SPORTS COMPLEX/EAST RUTHERFORD, NJ

From Chuck Gysi (PA-005):

464.775	KKX 453	New York Cosmos soccer/Giants Stadium (Warner Cmctns)
477.1375	KZA 706	N.J. Sports and Exhibition Authority--security
151.685	KCF 241	Stadium Operating Co.

NEW YORK CITY METRO LOW-POWER CHANNELS

From Rick Prelinger (CA-SF-002):

154.570	KA44992	American Stock Exchange
	KG 7548	American Broadcasting Cos.
	KJ 3044	The Frick Collection (museum)
	KO 7076	City of New York (unknown use)
	KV 3952	Whitney Museum of American Art
	KA40920	City of New York (unknown use)
	KA46885	Two Penn Plaza Associates (adjacent to Mad Sq Gdn)
	KA 6468	Forbes Inc. (magazine)
	KH 2521	Harry Winston Inc. (diamond dealer)
	KJ 3175	Metropolitan Museum of Art
	KL 4314	New York News (unknown use)
	KO 7280	Kingsborough Community College
	KP 2680	City of New York (unknown use)
154.600	KA44992	American Stock Exchange
	KG 7548	American Broadcasting Cos.
	KA57265	Tiffany and Co.
	KO 8127	New York Racing Association (Belmont and Aqueduct)
	KN 7586	Brooklyn Museum
	KW 3352	Yonkers Racing Corp. (Raceway)
	KA 2429	Columbia University
	KA25129	Bache & Co.
	KA39496	New York University
	KA40920	City of New York
	KE 2937	Hofstra University
	KG 2219	College of Mount St. Vincent
	KN 5485	Hunter College/CUNY
	KO 7280	Kingsborough Community College
	KP 2680	City of New York
	KP 7705	New York Plaza Building

	KY 8532	Madison Square Garden
457.525	KT 3752	Rockefeller Center Inc.
457.550	KT 3751	Rockefeller Center Inc.
467.750	KA68042	Studio 54 (no liquor license at present)
	KT 3752	Rockefeller Center Inc.
	KU 7026	Columbia Teachers College
467.775	KA65053	SUNY Maritime College
467.800	KT 3751	Rockefeller Center Inc.
	KV 7094	Brooklyn College
467.875	KV 7222	Bronx Community College
467.925	KO 5443	Riverside Church

From GARY ADLER (PA-048): Rock musician Teddy Prendergrast is licensed on 464.500 as Teddy Bear Productions for portable use on tours.

From RICK PRELINGER (CA-SF-002): Buffalo Bills football team licensed on 154.600 (KY 2138) and 467.850 (KQ 3749).

From WALT BARANGER (CA-OR-129): Correction on Woodbridge Lifeguards frequency in Irvine, Calif., in May column. The correct frequency is 464.425.

NEXT MONTH: New York City metro horse racing frequencies!

CANADA

Send Canadian frequency information, radio system details, other information relating to Canadian monitor radio listening, and questions to: Robert Berezowski, 5832 Dalhousie Drive NW, Calgary, Alberta T3A 1T1 Canada.

Hello to you all and welcome to this month's column. To start off I would like you all to refer back to my first column in the October 1980 RCMA. You will see that I asked the members for some comments on what I should publish in the newsletter with regards to Canadian military and Canadian Federal Government agencies. I am sorry to say that I only received one letter from a member giving his opinion. Therefore I was forced to make the decision myself. I decided that if the material was available to the general public, I would publish it. So this is what I did. I published a list of RCMP frequencies from across Canada that was sent to me by Guy(CAN-031). That list is mostly fixed point-to-point links for local law enforcement. Before I published this list I determined the source of his information, and this information is available to the general public and(officially, anyway) they don't seem to be very concerned about the radio traffic on these frequencies. If these frequencies carried classified radio traffic they would be classified. This also applies to the list of DND aeronautical frequencies also from Guy. Two installments will have appeared in the newsletter by the time you read this. The source of these frequencies is available to the general public, and I see no reason why they should not be published.

This seemed to work out okay for a while. I didn't get any complaints or comments on these frequencies. But in light of the letter from Mr. Strong in the May 1981 issue, I think the issue should be looked at. I would like to see some letters from the membership on this issue. I've explained to you my opinion on the subject, what I would like to hear is do you agree with me? I don't care what you say, but I will abide by what the majority think. If I don't receive any letters, the policy stays.

I now have some material that unfortunately got lost, but has now been found. My apologies to the members who submitted this

for not printing it sooner. The following is from Burt (CAN-011).

London	Police	XJF-25		142.035
	"	"		142.305
	"	"	CPIC/NCIC	142.875
	"	"	Common	142.770
Ingersoll	"	XJG-88		142.065
	"	"	Common	142.770
Woodstock	"	XJG-76		142.920
	"	"	Common	142.770
St. Thomas	"	XJF-82		142.125
	"	"	Common	142.770
Tillsonburg	"	XJK-28		142.500
	"	"	Common	142.770
Stratford	"			142.095
	"			142.425
	"			142.725
	"		Common	142.770
Brantford	"		"	142.770
	"			142.935
Haldiman-Norfolk Regional Police				142.145
				142.245
			Common	142.770
				142.880
Waterloo Regional Police				142.185
				142.585
				142.620
Waterloo Regional Police			Common	142.770
				142.815

Except for 142.185 and 142.620, the frequencies for the Waterloo Regional and the Haldiman-Norfolk Regional Police are not confirmed by Burt. Burt also offers an explanation for the Stratford Police, "It is a regional system operating out of Stratford, the largest town in the area. It covers small municipalities such as Listowel, St. Marys, Mitchell, and others. The small police forces use one channel and are dispatched either locally or by Stratford. Stratford Police is simulcast on all channels except for the common channel.

In a letter dated Feb/81, Steve(CAN-047) tells me that the West Vancouver Police Dept. have stopped using their repeater on 151.325. They are now on a repeater with an output of 141.900. Steve also passed on another interesting tidbit. He has found that the frequency of 451.550 is used by Chevron Oil at their refinery in Burnaby. Communications are mostly related to production activities such as gauge readings, valve openings and closings, pressures, etc. Steve guesses that their must be another channel because of the size of the installation.

I received a letter from Rory(CAN-003). With reference to the March '81 issue, he says that Vanier(Ottawa) police <u>are</u> on 142.185. They also use 139.770, 139.170 and 155.760. It's possible that the 155.760 frequency may no longer be in use.

Rory also says that the Metro Toronto Ambulance Service have deleted use of 154.920. They are now on the following frequencies:

150.535B/154.680M	XJK-783
151.820B/155.730M	"
152.375B/155.730M	"
153.905B/153.905M	XJK-774
149.410B/149.410M	XJJ-466
148.165B/148.165M	"

Apparently they use another channel that Rory has not identified. York Ambulance Control is on 149.470 with the call sign XMC-239.

While we are on the subject of ambulances, Chris (CAN-061) has sent me the Winter 1981 issue of Code 4. It describes the new NOARS system designed to fill dead spots on the highways between Sault Ste. Marie, Kenora and Timmins. Here are some excerpts from the article:

"The new Northern Ontario Ambulance Radio System (NOARS), now being set up to improve communications in northern regions, is expected to be fully operational by the spring of 1982.

The first system will be established at Plummer Hospital in

Sault Ste. Marie and will give coverage north along highway 17 to White River, east to Thessalon and north again to Chapleau.

'The system should ensure 90% communication along regional highways,' said Mr. C. Vinodrai, a communications expert with the Ministry of Government Services. 'Any ambulance bringing patients down these roads will have communications with Sault Ste. Marie. Sault Ste. Marie will in turn have communication with major hospitals as far away as Toronto.'

The system will include mobile repeaters in ambulance vehicles with a hand-held walkie-talkie tie-in for constant communication, and a paging capability.

Sault Ste. Marie will have two dispatch systems-one that will control the complete area and one that will handle the city itself. The system has a complete backup capability if anything fails.

When fully operational, NOARS will include Sudbury, Thunder Bay East and West, Kenora and Timmins."

The following list for the Toronto region is from Eric(CAN-046):

Toronto	Police XJF-72	Division 1 Traffic		148.850
		Division 2 Traffic		148.490
		Division 3 Traffic		156.240
		Division 4 Traffic		155.550
		Division 5 Traffic		155.400
		Computer Channel 1		142.035
		Computer Channel 2		142.065
		Computer Channel 3		142.125
		Computer Channel 4		142.155
		Computer Channel 5		142.305
		Computer Channel 6		142.335
		Computer Channel 7		142.695
		Computer Channel 8		142.725
		Computer Channel 9		142.875
		Computer Channel 10		142.905
		Computer Channel 11		142.965
		Computer Channel 12		142.995
Toronto	OPP	Aircraft		42.000
		Base XJB-66		42.060
		Mobile		42.220
		Base XMB-788		42.540
Toronto	Fire Dept.	Ch 1 XJG-68		153.950
		Ch 2 CJW-252 Fire Marshall's Ch.		154.070
		Ch 3 XJI-90 Fireground		153.980
East York	Fire Dept. XJK-45			153.770
Etobicoke	Fire Dept. XJJ-55			154.325
Scarborough	Fire Dept. XJD-87			154.430
York	Fire Dept. XJF-89			154.890
North York	Fire Dept. XJI-78			153.830
Toronto Int'l	Airport Fire XJK-27			154.950
Toronto	Toronto Civil Defence			149.440
	Provincial Disaster Services			149.495
				149.525
				154.920
Toronto	Weather Radio Canada XMJ-225			162.475
	Marine Weather			161.650
				161.775
Toronto	Radio Station CFTR		CJY-731	150.680
	Radio Station CBL		CJZ-243	152.870
	Radio Station CKEY		CJY-33	153.050
	Radio Station CHUM			153.350
	Radio Station CFRB		CJY-20	162.330
	Radio Station CHIN		CJY-569	172.770

I'll print more from Eric's list next month. If any members from that area can spot any errors (I did type it rather quickly) or has anything to add, please send it in. To finish off I would like to print a list Guy(CAN-031) sent to me.

AIR CANADA

167.850 Toronto, Ont, Dorval, PQ, Yarmouth NS, Gander

451.0250/456.0375	Dorval PQ
452.0125/457.0125	Toronto Ont
452.5000	Montreal PQ
453.4875	Dorval PQ, Mirabel PQ
454.2000/459.2000	Toronto Ont
460.7000	Abbotsford BC, Vancouver BC, Edmonton Alta, Calgary Alta, Saskatoon Sask, Windsor ont, Ottawa Ont, Quebec PQ, St John NB, Fredericton NB Halifax NS, Sydney NS, St Johns Nfld, Gander Nfld
460.7000/465.7125	Winnipeg Man, Mirabel PQ, Dorval PQ, Moncton NB
461.3500/466.3625	Toronto Ont
461.3625/466.3625	Toronto Ont
462.0500	Winnipeg, Man
462.0500/467.0625	Vancouver BC, Toronto Ont, Mirabel PQ
462.2875/467.2875	Toronto Ont
462.4250	Halifax NS
462.4250/467.4375	Toronto Ont, Dorval PQ, Mirabel PQ
462.6250/467.6375	Toronto Ont
463.2875/468.2875	Vancouver BC, Abbotsford BC
464.1125	Winnipeg Man
464.2500	Dorval PQ
464.3000	Dorval PQ
464.3750	Mirabel PQ
464.6250	Dorval PQ
465.0000	Dorval PQ
466.0700/460.7000	Victoria BC
467.2000	Toronto Ont.
469.1750	Dorval PQ

CP AIR

162.570	Fort St John BC, Prince George BC, Vancouver BC, Abbotsford BC, Whitehorse YT, Calgary Alta, Edmonton Alta, Winnipeg Man, Toronto Ont, Ottawa Ont, Dorval PQ
457.7125	Vancouver BC
460.8125/465.8125	Vancouver BC
461.6250/466.6375	Toronto Ont, Mirabel PQ
464.2750	Vancouver BC
464.2875	Vancouver BC
466.3625/461.3500	Toronto Ont
466.6375	Vancouver BC, Abbotsford BC

At this point I must pack up the typewriter until next month. Remember that if you have any additional material, corrections to this month's material, or whatever, please send it in. Don't forget to let me know what you think about the sensitives. Until next month, happy monitoring.

Books at Discount! RCMA July Special!

1. World Radio TV Handbook 1981, 600p, Billboard Publications, $15
2. Federal Frequency Directory, 260p, Robert B. Grove, $14
3. North American Radio TV Station Guide 14th ed., 210p, Vane Jones, $7.50
4. FM Atlas & Station Directory 6th ed., 1980, 100p, Bruce Elving, $5
5. Intro to Microcomputers for the Ham Shack, 90p, H. L. Helms, Jr., $4
6. Electronic Telephone Projects, 165p, A. J. Caristi, $6
7. Beginners' Handbook of Amateur Radio, 380p, Clay Laster, $9
8. Complete SWL's Handbook 2nd ed., 1980, 300p, Bennett & Helms, $8
9. Police Call 1981, Gene Hughes, 9 volumes, $6 each. Specify vol. # or state(s); order 3 and get choice of #3 thru 6 FREE. Order all 9 ($54) and take your choice of $25 in books from above list.

ALL PRICES POSTPAID! CA residents add 6% sales tax. Mail with SASE and check or money order payable to: DONALD ERICKSON, 6059 Essex St., Riverside, CA 92504. Inquiries welcome 7AM-midnight PDT, 714-687-5910.

COMMUNICATIONS PROFILE

RCMA, P. O. Box 341, Ringoes, New Jersey 08551

This column is for special projects that explain various radio systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution myst be lengthy enough that publishing it in one of the regular columns would not be possible due to length. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

GEORGIA DEPARTMENT OF PUBLIC SAFETY
From Larry (GA-009):

The Georgia Department of Public Safety consists of six divisions, Fiscal, Logistics, Driver Support, Personnel, Administrative and the Georgia State Patrol. The Georgia State Patrol is the most "visible" of these divisions to the public as it is the Georgia version of the "state troopers" that patrol the state's highways.

The State Patrol is organized into eight "troops" identified by letters of the alphabet as troops A through H. Here is the breakdown of posts and troops:

Troop A -Canton

Post No.	Location	Callsign
3	Cartersville	KIB 587
28	Canton	KBP 645
29	Cedartown	KIB 603
38	Rome	KFK 543
41	LaFayette	KBI 836
43	Calhoun	KRL 340
5	Dalton	KIB 602

Troop B - Washington

Post No.	Location	C/S
6	Gainesville	KIB 436
7	Toccoa	KIB 600
17	Washington	KIB 674
27	Blue Ridge	KIB 588
32	Athens	KIB 568
37	Lawrencvlle	KFG 428

Troop C - Atlanta

9	Marietta	WXK 538
46	Conyers	
47	Forest Park	WXB 837

Troop D - Villa Rica

1	Griffin	KIB 591
2	LaGrange	KIB 589
4	Villa Rica	KIB 590
24	Newnan	KIB 608
26	Thomaston	KIB 606
34	Manchester	KIG 575
44	Forsyth	KRP 683

Troop E -

8	Madison	KIB 599
15	Perry	KIB 598
20	Dublin	KIB 609
30	Cordele	KIB 604
33	Milledgeville	KIF 866

Troop F - Thomson

19	Swainsboro	KIB 610
21	Sylvania	KIB 597
25	Thomson	KIB 607
42	Savannah	KLG 599
45	Statesboro	KRZ 241

Troop G -

10	Americus	KIB 592
12	Thomasville	KIB 605
13	Tifton	KIB 594
14	Donalsville	KIB 593
31	Valdosta	KIA 242
39	Cuthbert	KGL 537
40	Albany	KIB 672

Troop H - Reisdville

11	Hinesville	KIB 596
16	Helena	KIB 612
18	Reidsville	KIB 673
22	Waycross	KIB 595
23	Brunswick	KIB 611
35	Jekyll Isl.	
36	Douglas	KIB 659

In addition to the Troops, there is an aviation unit which is headquartered at Reidsville, Georgia.

Georgia State Patrol cars are generally equipped with 4-channel high band radios. A typical installation is a Motorola "Motrac" called the Georgia Law enforcement model which is equipped with 4 channel scan and priority.

GSP cars are equiiped as follows:
F1 - transmit 154.800, receive 154.680; used for car to post
F2 - transmit 154.680, receive 154.680; used for car to car
F3 - transmit 154.935, receive 154.905; used for car to S.O.
F4 - transmit 154.905, receive 154.905; used for car to SO car

In addition, GSP cars are equipped with citizen's band units.

GSP base stations are equipped to transmit on the following:

154.680, 154.800, 154.905, 154.935, 155.370, 155.475 and 42.02

155.370 is used for intercity purposes.
42.02 was the primary dispatch frequency many years ago, today it is used mainly for GSP base to base traffic of ten of a minor nature that does not warrant sending a teletype message via the Burroughs TC-500 terminal with which each GSP post is equipped.

155.475 is believed to be used in connection with the Georgia Bureau of Investigation (GBI). While the GBI works closely with the GSP, it is not part of the Department of Public Safety.

Only state vehicles may be equipped with 154.68/80. GSP traffic to local and S.O. vehicles is via 154.905/935.

The GSP devised a uniform numbering system reduce confusion on the 154.905/935 channels. Each county is assigned two sets of designators, one for the S.O. and another for the city or county police. (Note, not all Georgia counties have county police, some do, some do not. Also note that the uniform number system is generally not used by the larger cities.)
There are 159 counties (!) in Georgia. The numbering system requires that they be placed in alphabetical order. Here is a sample of how it works:

County Name	S.O. #	C.P. #	County No.
Appling	601	602	1
Atkinson	603	604	2
Bacon	605	606	3
////////////////////////////			
Wilkinson	915	916	158
Worth	917	918	159

The Sherrif of Atkinson County would identify as "S603A", the s indicating a s.o. unit, 603 the county and "A"first unit. Usually the sherrif reserves "A" for himself, "B" for the chief deputy, etc. A Worth County county police unit (if there is such a thing) would identify as CP918A. A city unit from Wilkinson might be M916A, where "M" stands for municipal. You can take a list of the counties from an atlas and fill in the missing ones, they are omitted here in order to save space.

Putting together the list of Georgia counties serves another useful purpose for the listener.

Georgia EMS units are also numbered from the list.

For example, the number one ambulance in Bacon county would identify as 3M1. Where "3" is the number of the county in the alphabetical list, "M" in the middle is

the desginator for a medical unit and the final digit would be the unit number. Similarly, my EMS units in the city in which I live are 16M1, etc. The EMS units have capability on 154.905/935 as well as guarding 155.340 and their own local hospital frequency as well.

The EMS units use the "7" code on their own freqs when passing medical traffic. They use (if they remember!) the GSP "10" code when on police freqs.

contact/info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interests, this is the perfect place for you to make your desires known. Remember--those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address.

Write to: John W. Darr, P.O. Box 1652, Cheyenne, WY 82001

OHIO FREQS: Ohio Dept of Natural Resources Q-Codes and signals needed. Also codes and signals for Ohio cities that do not use standard APCO list. Will swap other Ohio material with you. [4-27-81]
JERRY CALLAM (OH-Ø15), 104 Mapelwood, Mt Vernon, OH 43050

WANTED: Frequencies for Kings Island amusement park (and other similar areas) near Cincinnati, Ohio. Also, copies of scanner laws for all states. Will reciprocate if requested. [5-2-81]
JEFF HOWELL (KY-Ø23), P O Box 237, Milton, KY 40045

HELP! Can anyone provide the names of receivers capable of receiving the 225-400 MHz military aircraft band? [5-2-81]
ROSS TARANGLE (CASB-Ø38), P O Box 426, Loma Linda, CA 92354

BLYTHEVILLE ARKANSAS FREQS? Member soon to be moving to Blytheville AFB from Keesler AFB would like to exchange frequencies -- yours of the Blytheville area for his of the Biloxi-Gulfport area. [5-2-81]
DAVID O CHASTAIN, M.D., (MS-Ø14), 4607 Kendall Ave, Gulfport, MS 39501

OKLAHOMA CITY FREQS: RCMA Member, newly a resident of Oklahoma, needs frequencies, codes, and other information for Oklahoma City and vicinity. Wants all services: police, fire, ambulance, business, government, military, etc. Would also like to meet other members in the area. [5-11-81]
MARVIN CORTEWAY (MI-Ø67), c/o Hubert Corteway, 5624 Shalimar Drive, Oklahoma City, OK 73135

EXCHANGE NEW ORLEANS FREQS: New Orleans member wishes to contact other Louisiana members regarding exchange of frequency information. Or -- any member who wishes to swap federal frequency info. ALSO: does anyone have any info on U. S. Labor Dept. frequency 406.200 MHz? If so, please send. [5-12-81]
TOM MONTEVERDE (LA-ØØ3), 6029 Perlita St, New Orleans, LA 70122 // (504) 288-3887 5 p.m. to 10 p.m., CST

NEEDED: Frequencies used at Jefferson Proving Ground near Madison, Indiana (U S Army). [5-18-81]
JEFF HOWELL (KY-Ø23), P O Box 237, Milton, KY 40045

DC PHILA DELAWARE FEDERAL FREQS: Member wishes to exchange federal frequency information in the stated areas for similar info in Baltimore. ALSO -- would like ID of station in DC using tactical callsign "BOARDWALK" on 414.850 MHz. Reply cassette tape, letter, or phone (6 to 11 p.m.). [5-23-81]
JOE McLAUGHLIN (MD-ØØ2), 610 Scott St, Baltimore, MD 21230 // (301) 752-1916

1976 POLICE CALL RADIO DIRECTORY WANTED: Will pay $5 for a 1976 edition in good condition. [5-29-81]
MICHAEL BENNETT (TX-Ø81), 419 E 8th, Apt D, Bonham, TX 75418

KENTUCKY STATE INFO: Looking for a copy of the signal code used by the Kentucky State Police. Also would like frequencies used by the Kentucky Division of Forestry, particularly in the Harlan County District. A new member, he would like to correspond either by cassette or letter with other Kentucky members. Has numerous frequencies, and will be glad to share. [5-29-81]
TRACY TURNER (KY-Ø26), St. Rt. Box 171, Harlan, KY 40831

Marketplace

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to: RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550. Please be sure to include your membership number.

FOR SALE: Regency crystals for the following frequencies: 33.74 / 39.10 / 41.25 / 44.74 / 44.90 / 47.34 / 47.62 / 146.61 / 146.67 / 146.70 / 146.73 / 147.06 / 148.15 / 148.175 / 151.01 / 151.07 / 151.055 / 151.175 / 151.535 / 152.09 / 152.57 / 153.95 / 154.055 / 154.115 / 154.175 / 154.31 / 154.34 / 154.37 / 154.65 / 154.665 / 154.695 / 154.71 / 154.74 / 154.755 / 154.785 / 154.80 / 154.935 / 155.07 / 155.025 / 155.16 / 155.22 / 155.34 / 155.67 / 158.79 / 158.82 / 158.88 / 158.97 / 159.15 / 162.55 / 118.15 / 119.75 / 119.6 / 119.9 / 120.35 / 121 51 / 122.2 / 122.6 / 123.0 / 123.6 / 124.25 / 125.5 / 126.2 / 127.6 / 127.75 / 128.05 / 128.2 / 128.35 / 133.25 / 134.1 / 134.225 / 134.3 / 134.85. $ 2.50 each or all 72 for $ 150.00. Also will consider trade for a scanner or related items. Contact: T. G. BANKS (ME-005), P.O. Box 3174, Lewiston, ME 04240.

FOR SALE: Regency M-100. New condition w/all accessories. $ 185.00. Contact: THOMAS TOPPIN (DE-009), 11 La Salle Ave., New Castle, DE 19720.

FOR SALE: Regency type crystals for the following frequencies: 33.56 / 33.70 / 44.68 / 45.38 / 47.30 / 47.38 / 155.565 / 155.97 / 453.00 / 460.05. $ 2.25 each or all 10 for $ 21.00, shipping included. Contact: DON SHANLY, JR. (CT-003), P.O. Box 147, Farmington, CT 06032.

FOR SALE: Pre-Amps (2) Vanguard Model 202UHF. Tuned to 414.00 mhz $ 30.00. Contact: TONY LOVING (NJ-005), 393 Grove St., Ridgewood, NJ 07450 or phone 201-325-6801 days or 201-652-5252 evenings & weekends.

FOR SALE: Regency type crystals for the following frequencies: 151.985 / 154.65 / 151.115 / 155.61 / 154.445 / 155.37 / 155.13 / 158.82 / 45.90 / 154.04 / 150.995 / 155.205 / 154.16 / 155.415 / 158.76 / 453.80 / 161.04 / 476.3625 / 154.77 / 453.65 / 155.985 / 470.6625 / 159.21 / 454.10 / 44.78 / 154.43 / 155.85 / 460.50 / 155.55 / 460.075 / 155.46 / 470.8375 / 470.8625 / 44.66 / 453.375 / 470.3125 / 155.535 / 160.47 / 161.40 / 37.38 / 471.0875 / 44.98 / 453.40 / 44.62. Contact: TONY LOVING (NJ-005), 393 Grove St., Ridgewood, NJ 07450 or phone 201-652-5252 after 1830 EDT.

FOR SALE: APR-4Y receiver, 38-1000 mhz, with pan set, $ 135.00, this is the newer model of the APR-4. I also have a spare tuning unit for $ 35.00. R390A .5-31 mhz, excellent condition, $ 300. Contact: FRANK MORELAND (CA-SD-038), 3748 Yosemite, San Diego, CA 92109.

FOR SALE: Regency Touch VHF/UHF model ACT-16K w/plug-in antenna & manual. $ 175.00, will ship. Contact: ALBERT KROUSER (IN-048), 30328 N. Meadowbrook Ln., Elkhart, IN 46514 or phone 219-264-2809.

FOR SALE: Regency model ACT-E10H/L/U 10-ch. crystal scanner. With 2 screw in antennas. $ 100.00, will ship. Contact: ALBERT KROUSER (IN-048), 30328 N. meadowbrook Ln., Elkhart, IN 46514 or phone 219-264-2809.

FOR SALE: Regency K500. Used, excellent condition, scratched. No DC cord or mounting equipment. No guarantee or warranty, as is no refund. $ 200.00 includes U.S. Mail. Contact: JOHN HENRY HART (PA-019), 3608 Genesee Dr., Philadelphia, PA 19154.

FOR SALE: Bearcat BC-250. Excellent condition. Will receive 406-420 mhz. Asking $ 250.00 U.P.S. shipping paid. Contact: GERRY KERNS (CA-OR-193), 1250 S. Sycamore, Santa Ana, CA 92707 or phone 714-834-1805.

FOR TRADE: Wish to trade a Regency Touch K100 for a Bearcat BC-220 in good condition. My unit has 10-ch., search, manual, antenna and is programmable. Contact: SCOTT CARR (AL-015), P.O. Box 1485, Birmingham, AL 35201.

FOR SALE: Realistic Pro-40 scanner. 8 ch., UHF-VHF, compact, runs on 12 volt, excellent for mobile use. Very good condition. $ 35.00. Contact: TOM ADAMS (MI-048), P.O. Box 1165, Midland, MI 48640.

WANTED: Person to sell student a good working Bearcat 250 or 300 on a time monthly pay schedule. $ 50.00 down & $ 25.00 monthly or something similar. Contact: DAVID GLORIUS (FL-058), P.O. Box 452, Silver Springs, FL 32688.

FOR SALE: Crystals. All are for Radio Shack scanners. $ 2.00 each. I am not a dealer. A bag of crystals was given to me by a Radio Shack store that was going out of business. A complete list of all crystals that I have would be too large to print here. Crystals range from 42.14 mhz on up to 476.987 mhz. Mail me your check and what frequency you need. If I don't have it, your uncashed check will be returned. Contact: TOM BUCKLEY WB2TRY (NY-171), P.O. Box 3086, Astoria, NY 11103.

FOR SALE: Emergency telephone numbers for the NYC metropolitan area. 12 pages of telephone numbers. Poison Control Center, Police precincts, Coast Guard Rescue Center, Water Emergencies, Traffic Dept., and more. Send $ 1.00 and your request. Contact: TOM BUCKLEY WB2TRY (NY-171), P.O. Box 3086, Astoria, NY 11103.

WANTED: Single channel Regency TMR-H. Contact: ROBERT TRIVALOS (WI-026), 906 E. Waterford Ave. # 3, Milwaukee, WI 53207.

FOR SALE: Regency type crystals for the following frequencies: 154.65 / 154.68 / 154.71 / 154.74 / 154.77 / 154.80 / 154.815 / 154.83 / 154.98 / 155.01 / 155.025 / 155.13 / 155.19 / 155.25 / 155.31 / 155.37 / 155.46 / 155.475 / 155.49 / 155.52 / 155.55 / 155.61 / 155.625 / 155.64 / 155.685 / 155.715 / 155.73 / 155.79 / 155.82 / 155.91 / 155.97 / 155.995 / 156.03 / 156.09 / 156.15 / 158.85 / 159.09 / 159.15 / 453.05 / 453.10 / 453.225 / 453.425 / 453.60 / 453.975. 75¢ each/$2.00 for 3/ $5.00 for 9/$10.00 for 20/$20.00 for all. Contact: ROBERT TRIVALOS (WI-026), 906 E. Waterford Ave. # 3, Milwaukee, WI 53207.

FOR SALE: One Modular Systems, Worcester, Mass. Model SIP-1 Speech Inverter. Powered by 9-V battery. Seldom used as local PD did away with 'scrambled' calls. Send 36¢ postage stamps for spec sheet. Asking $ 49.95 or will consider a trade for a scanner or related items. Contact: T. G. BANKS (ME-005), P.O. Box 3174, Lewiston, ME 04240.

FOR SALE: Sears Hand-Held Hi (150-170 mhz) scanning monitor Model #61 3629. 4 channels with Ch. 1 bypass switch. Accessories include case, AC adaptor, cigarette lighter adaptor, telescoping antenna, nickel-cadmium battery pack & owners manual. Asking $ 80.00 or will consider trade for a scanner or related items. Contact: T. G. BANKS (ME-005), P.O. Box 3174, Lewiston, ME 04240.

WANTED: Regency M-400 E-2 European or Australian model or information to help obtain one. Contact: GEORGE TUCKER (WI-023), 4734 N. 49, Milwaukee, WI 53218 or phone 414-466-7339 after 2200 CDT.

FOR SALE: Bearcat Weather Alert Receiver. Very good condition. $35.00. Contact: BOB SCHWEIKERT (NJ-068), 114 Keyport Rd., N. Cape May, NJ 08204.

WANTED: Crystal type scanners, 110 VAC/12 VDC. Regency, SBE, Bearcat. Let me know what you have and asking price. Also looking for Midland 13-903B, 13-919 & 13-921 pocket scanners. Contact: CHUCK O'CONNOR (CA-SC-017), 1833 Germaine Ct., San Jose, CA 95122 or phone 408-279-0548.

FOR SALE: FRG 7700. Perfect condition, like new (no memory option). $ 425.00. Contact: STEVE HANDLER (IL-001), 2610 Sheridan Rd., Zion, IL 60099 or phone 312-746-1414 (days) or 312-498-1403 (nights).

FOR SALE: Sears UHF/VHF programmable scanner. 16 channels, some cards included. Good condition. Will ship. $ 100.00. Contact: RICK ILLES (CA-LA-283) by phone at 213-439-8471.

FOR SALE: Regency Whammo-10 & DFS-5K. Very good condition, no antenna. Many combs, programmed & unprogrammed. Asking $ 225.00 for both. Contact: RUSSELL HILL (MI-002), 22041 Sunset, Oak Park, MI 48237.

WANTED: Regency K-500. Mobile accessory not necessary, base only. Can only afford $ 200.00 or less. Contact: STEVE RUSSELL (FL-090), 4923 Springfield Dr., West Palm Beach, FL 33406 or phone 305-689-5329.

FOR SALE: Regency ACT R-10 H/L/U. Excellent condition, just checked by factory. All accessories for AC/DC use. $ 125.00 or best offer. Contact: LAINE S. HERMAN (CA-SD-016), 3177 Via Alicante, La Jolla, CA 92037 or phone 714-452-8423. No collect calls, please.

FOR SALE: RCA hi/lo VHF 4 channel pocket scanner. 5 yrs. old, good condition. $ 75.00 or best offer. Contact: LAINE S. HERMAN (CA-SD-016), 3177 Via Alicante, La Jolla, CA 92037 or phone 714-452-8423. No collect calls, please.

FOR SALE: FCC Microfiche. Complete September 1980 edition, excerpt for Alaska & part of Alabama. 35 sheets list licensee, frequency, call sign, city, & state. Data listed by state and city. $ 10.00. Will ship by 1st class mail. Contact: DAVID ESTILL (KS-002), P.O. Box 55701, North Pole, AK 99705.

FOR SALE: Bearcat type crystals for the following frequencies: 155.01 / 155.13 / 155.28. Never used. $ 4.00 each or all 3 for $ 10.00. Contact: BOB MILO (NY-144), 117 Fenimore Rd., Mamaroneck, NY 10543.

FOR SALE: Regency Touch M-400. Under warranty. $ 250.00. U.P.S. shipping paid. Contact: BRENT BASINGER (CA-SB-016), 9182 Cielito, Alta Loma, CA 91701 or phone 714-987-1462. No collect calls, please.

WANTED: Radio Shack VHF Hi-Lo/UHF scanner pre-amplifier, manufactured about 5 years ago. Red case & power supply. Contact: JOHN MACMILLAN (MA-005), Box 566, Ashburnham, MA 01430.

FOR SALE: Frequency list. Will make paper copies of March 6, 1981 FCC microfiche listing of all FCC licensees in Oregon. Approximately 145 pages, 16,971 assignments, alphabetical by city then frequency, giving service code, call sign, and licensee name. $ 8.00 to cover cost of paper copies from fiche, postage, & handling. (Enclose any Oregon Federal frequency information you might wish to share and I will pass it along for free to all purchasers.) Contact: JIM LOCKWOOD (VA-022), 2510 Skopil Ave. S., Salem, OR 97302.

FOR SALE: Fanon Scanfare VHF HL-U 4 channel pocket scanner with SCMA-1 mobile adaptor plus case & ni-cads. 4 months old. Prefer sale to New York City area members. $ 130.00. Contact: FRANK EGBERT (NY-176), 4615 Ft. Hamilton Pkwy., Brooklyn, NY 11219 or phone 212-436-9849.

FOR SALE: Regency Whamo 10-ch. programmable scanner; good condition; $ 80.00. Realistic Patrolman Pro-8 8-ch. VHF crystal scanner; excellent condition; $ 100.00. Sonar FR-2526 10-ch. VHF Hi/UHF crystal scanner; excellent condition; $ 150.00. All 3 have manuals & all original antennas, cords, hardware. Prices include U.P.S. shipping. Am willing to consider reasonable offers. Contact: DAVID R. ALLEN (AZ-004), 1616 N. Winstel Blvd., Tucson, AZ 85716.

FOR SALE: Regency ACT-C4H 4-ch. scanner aligned for super sensitivity at Federal 165-168 mhz band. $ 60.00. Guaranteed 90 days. Contact: BOB AHERN (MA-088) by phone at 617-251-7216.

FOR SALE: Realistic Pro-77A VHF Hi-Lo 8-ch. scanner aligned for super sensitivity at 165-168 Federal band. $ 75.00 Guaranteed 90 days. Contact: BOB AHERN (MA-088) by phone at 617-251-7216.

FOR SALE: Lafayette PF-300 3 band tuneable. 30-50 mhz / 144-173 mhz / 450-470 mhz. Also has 2 crystal positions for each of the above bands. Will align to your specs for maximum sensitivity. $ 50.00. Guaranteed 90 days. Contact: BOB AHERN (MA-088) by phone at 617-251-7216.

FOR SALE: Used scanners aligned to your specs for maximum sensitivity within any band, Federal included. Contact: BOB AHERN (MA-088) by phone at 617-251-7216.

FOR SALE: Regency type crystals for the following frequencies: 471.0375 / 470.7625 / 470.8625 / 460.350 / 460.450 / 460.175 / 154.31 / 154.415 / 155.595 / 154.37 / 154.22 / 46.26 / 46.06 / 39.76 / 39.44 / 42.34 / 44.90 / 45.46 / 39.66 / 155.31. All 20 for $ 30.00. Contact: BILL MULLOWNEY (MA-029), 62 Woodlawn St., Everett, MA 02149.

FOR SALE: Regency type crystals for the following frequencies: 46.50 / 146.910 / 460.125 / 453.425 / 160.830 / 160.245 / 42.70 / 42.86 / 48.28 / 146.970. $ 3.00 each. Contact: MARK A. THOMAS, JR. (VA-051), 12163 Nokesville Rd., Bristow, VA 22013.

FOR SALE: Realistic DX-160 Communications Receiver. 150 khz thru 30 mhz. In mint condition. Includes owners manual. Asking $ 100.00. Contact: WILLIAM O'CONNELL (NH-???), 3 Elm St., NH 03301

FOR SALE: Regency ACTR-106. $ 100.00 w/o crystals. Will sell with crystals for $ 140.00. Crystals for: 146.52 / 146.55 / 146.79 / 146.94 / 155.415 / 154.845 / 155.34 / 155.34 / 37.20. Contact: JEFF WESTON (AR-010), 102 Mt. Tabor St., Hot Springs, AR 71901.

FOR SALE or TRADE: R-1121 / TRC-87: $ 250.00. R-1715 / TRC-87A: $ 300.00. With 110 VAC - 60 hz power supply - 225 - 399.95 mhz in 50 khz steps - synthesized - rack mount - solid state (made by Motorola). I need some 7077 tubes (used in receiver front ends; early 1970's). Contact: MICHAEL P. MURPHY (CA-SD-033), 738 Laguna St., El Cajon, CA 92020 or phone 714-442-7049.

FOR SALE: New Realistic DX-100 4 band AM/SSB SW receiver. 1 yr. warranty, best offer, ship U.P.S. BC SPH/L pocket scan E/C w/metal antenna, best offer. Will consider trading both for E/C, BC210 or 220, or Sonar FR-2526. Contact: MICHAEL WRIGHT (NY-067), 1414 E. 15th St., Brooklyn, NY 11230 or phone 212-627-7159.

FOR SALE/TRADE: Crystals (10.7 mhz IF) Sonar/Realistic for the following: 476.3125 / 151.235 / 450.650 / 160.305 / 151.16 / 161.70 / 155.22. For BC905: 151.205/37 / 453.375. Reg. ACTR: 453.650. Realistic P-5: 476.4625. Sonar FR-103: 161.700 / 173.325. Sonar FR-106: 37.260. $ 2.00 each or trade for Regency 301-616 Flight Scan crystals any frequency 118 - 136 mhz. Contact: MICHAEL WRIGHT (NY-067), 1414 E. 15th St., Brooklyn, NY 11230.

FEDERAL GOV'T and ★ MILITARY ★

Robert B. Grove, Editor

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to: Robert B. Grove, Route 1–Box 156, Brasstown, NC 28902. Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

NEW RTTY PUBLICATION

Universal Electronics of Columbus, Ohio (Tom Harrington, W8OMV) has just published their new worldwide radio teletype news services frequency lists. It covers the shortwave spectrum and is cross-referenced by time and frequency. It will be available shortly in the Grove Enterprises catalog as well as other dealers nationwide.

MOUNT ST. HELENS' "RED ZONE" RADIO WARNING SYSTEM

Stan (OR-19) alerts our readers to a new Federal Highway Administration (DOT) repeater serving surveyors and construction supervisors working the buried roads near the volcanic eruption area last year. The repeater may be heard on 40.97 MHz on Mt. Burley (15 miles northeast Mt. St. Helens). Input is 40.39, tone-burst accessed. Simplex frequencies are 40.97, 40.39 and 40.26. Thanks, Stan.

EUROPEAN VHF/UHF AIRCRAFT

British member Ian Kerr advises us of the AERAD Flight Guide which shows that in West Germany each ATC UHF frequency has a parallel VHF frequency, just like in the US. This is probably a worldwide procecure for aeronautical convenience. Interesting, Ian.

US GEOLOGICAL SURVEY COMMUNICATIONS

Tom (LA-003) has shared an interesting system detail used by USGS inspectors engaged in management and law enforcement of oil drilling in the Gulf of Mexico and outer continental shelf areas. He also indicates some Fish and Wildlife servic allocations.

KKF 312 (Lafayette, LA) 411.675 (transmit link), 417.625 (receive link)
KKF 311 (South Bend, LA) 417.625 "" "" , 411.675 "" ""
166.375/166.975 "" "" 166.375 "" ""
(Mobile/base)

KKF 311	(off shore portable)	166.375/166.975	transmit	166.375	receive
KKF 319	(off shore repeater platform)	166.375	""	166.975	""
KKF 314	(Lake Charles, LA)	411.625	""	417.575	"" link
KKF 313	(Cameron, LA)	417.575	""	411.625	"" ""
		166.350	""	166.350	"" ""
KOJ 311	(Pennzoil Platform)	166.350	""	166.950	"" ""
KKF 313	(Portable)	166.350/166.950	""	166.350	"" ""
KKF 316	(Houma, LA)	411.625	""	417.575	"" ""
KKF 315	(Cocodrie, LA)	417.575	""	411.625	"" ""
		166.275/166.875	""	166.275	""
		Base/mobile			
KKF 315	(Off shore portable)	166.275/166.875	""	166.275	""
KOJ 310	(Off shore repeater)	166.275	""	166.875	""
KKF 330	(New Orleans, LA)	411.675	""	417.625	"" ""
KKF 331	(Venice, LA)	417.625	""	411.675	"" ""
		166.350/166.950	""	166.350	""
KKF 332	(Off shore portable)	166.350/166.950	""	166.350	""
"" ""	(Off shore repeater)	166.350	""	166.950	""

Thanks, Tom, for this interesting system insight.

LOS ANGELES ARTC UHF/VHF FREQUENCY ASSIGNMENTS

Thanks to Carl Pagel we have the following frequency pairs used by military and government aircraft in the Los Angeles area:

327.8/124.15	346.4/125.85	354.1/127.4	299.2/135.55
317.7/127.1	351.8/132.6	257.9/133.05	377.2/135.9
307.1/125.8	350.3/126.4	327.1/135.5	306.3/135.25
284.7/132.5	269.5/128.05	343.7/134.4	272.7/127.9
307.9/134.65	377.1/134.7	372.0/135.3	323.2/134.95
343.6/124.2	317.4/132.3	263.0/134.025	346.3/127.35
319.2/124.85	351.7/128.2	338.3/132.15	279.6/133.55
291.7/128.6	290.2/126.35	257.9/128.3	351.9/135.575
278.5/134.25	285.5/134.75	277.4/125.65	282.3/133.2
285.6/133.4	322.4/132.85	307.8/135.45	261.5/135.75

Several Navy frequencies were also mentioned, as well as some UHF simplex:

274.6 278.1 312.3 326.7 276.3 369.9

Thanks, Carl.

Fred (NM-005) provided a correction for our May column. Channel 4 of the Cibola National Forest (172.225 MHz) is mobile only. Lookout-to-lookout, fire line, local worksite. A base station may transmit briefly, asking mobile or portable units to switch to channel 1 or 3. Thanks for the clarification, Fred.

HAMS EXPERIMENT WITH SECURE COMMUNICATIONS

The FCC has just granted AMRAD, a Washington, D.C. R&D Ham Club, a special temporary authorization to experiment with voice/date encryption.

Techniques to be used will include frequency hopping in a Washington/Rochester/FCC net; voice/data frequency hopping on the 10 meter band with ham equipment; direct sequence spread spectrum on 420 MHz with converted amateur TV transmitter; and moonbounce using spread spectrum on 420MHz.

The encoding is done by a fast binary stream established in the engineering community called "Gold Codes". The receiver must be equipped to match the binary encoding data stream, otherwise the listener will hear only a slight increase in background noise. Much military and sensitive Federal Government communications in the HF spectrum is already using this technique for voice and data privacy.

NATIONAL SCIENCE FOUNDATION COMMUNICATIONS

The VLA (very large array) radio telescope near Magdalena, NM uses 162.025 MHz for security, transportation and antenna moving equipment. Thanks to Fred Richter for this information.

Joe (MD-015) informs us that the US Park Police use the standard APCO ten-code signals. This ten code is the most commonly encountered in the country, and is available for many police and fire agencies. A small sampling is included in the Police Call Directory, and the complete list is printed in my book, Communications Monitoring.

As I mentioned earlier in this column, Tom (LA-003) provided national wildlife refuge assignments as well as his interesting petroleum frequencies from the USGS. The locations (all on 34.83 MHz) are as follows:

KKF 601	Delta	National	Wildlife Refuge,	Pilottown, LA.
KKF 608	Lacassine	"	"	Lake Charles, LA.
KKF 617	Catahoula	"	"	Jena, LA.
KKF 643	D'Arbonne	"	"	Monroe, LA.

From Arthur (SC-011)

41.06 FCC Portables; use rare
163.200 US Marshall repeater output
413.950 GSA, Greenville
415.200 GSA, Greenville
419.175 GSA, Columbia
417.200 GSA, Witness protection
165.750 National Traffic Safety Board, Air crash investigation.
148.150 Civil Air Patrol repeater output.(149.925 in)
34.81 US Fish & Wildlife
34.83 " " " "
173.5875 USAF search & rescue
27.575(!) Federal Government, multiple use 4 watt mobiles
292.1 USAF Tactical Air Command
311.0 USAF Strategic Air Command
304.8 USAF Hurricane Hunters
163.000 VA paging
47.42 American Red Cross
385.4 Military Air to Greenville (downtown)
350.2 Military Air to Greenville (Spartanburg)
385.4 Military Air to Greenville (Spartanburg)
159.270 State Forestry
167.175 Blue Ridge Parkway Rangers
168.725 Pisgah National Forest Parkway Rangers
Thanks, Arthur for sharing this nice list.

And finally, Shel (CA-LA-392) wrote a nice letter explaining why we occasionally hear highband transmissions while monitoring UHF on our scanners. Shel says that although the VHF amplifier is turned off in the UHF mode, some strong VHF signals sneak through and are picked up by the VHF mixer stage which are still active. This causes all sorts of interference in strong signal areas.

Brent (CA-SB-016) addresses a similar situation with his Bearcat 250. He notes that as the result of non-standard oscillator mixing, he can hear unusual frequency combinations like 413.700 when his display reads 332.900 after the out-of-band search technique. Other frequency/readout pairs include: 413.775 (332.975),414.225 (333.425) and 414.400 (333.600). Brent adds that using this same out-of-band technique he copies the two

meter ham band when 316-319 MHz is displayed, 162.550 weather on 363.650, 449.725 ham on 368.925, and 460.300 police on 379.500. Perhaps other readers can share some of their unusual frequency combinations with us.

I would like to thank those faithful readers who share this interesting information with us and look forward to seeing more of you next month!

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest, Photographs must be 3' by 5' inches or larger, black and white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.

Above is the installation of MARTIN (IL-168) who says "Chicago is the greatest place for monitoring!" Martin advises that the telephones are direct lines to radio and TV news rooms, with all monitoring equipment recorded, and all set for automatic transfer to battery operation in the event of power failure. On the left from the top is a McDonald 'Weather Eye', Regency DFS-5K placed above a Whamo 10 (ACT-W10), which sits atop another ACT-W10 and a Cobra CB radio. From the top in the center is a Realistic Comp-100 16 channel progra-mmable unit, 2 Realistic Pro 7Bs (similar to the Editor's very first scanner), a Sony Reel to Reel tape deck, and a Realistic DX160. On the right is a Bearcat 220, Bearcat 210XL, and a Bearcat 250, plus a Regency 16-channel Flight Scan. There isn't too much that Martin misses with that arrangement. And that is a mighty good photo for a Polaroid Camera! So get out your camera, and get in those photos! Next Month: a photo feature on the Midwest Spring Festival (It will make you wish you were there, in case you weren't). See you next month. That is sure a set-up...

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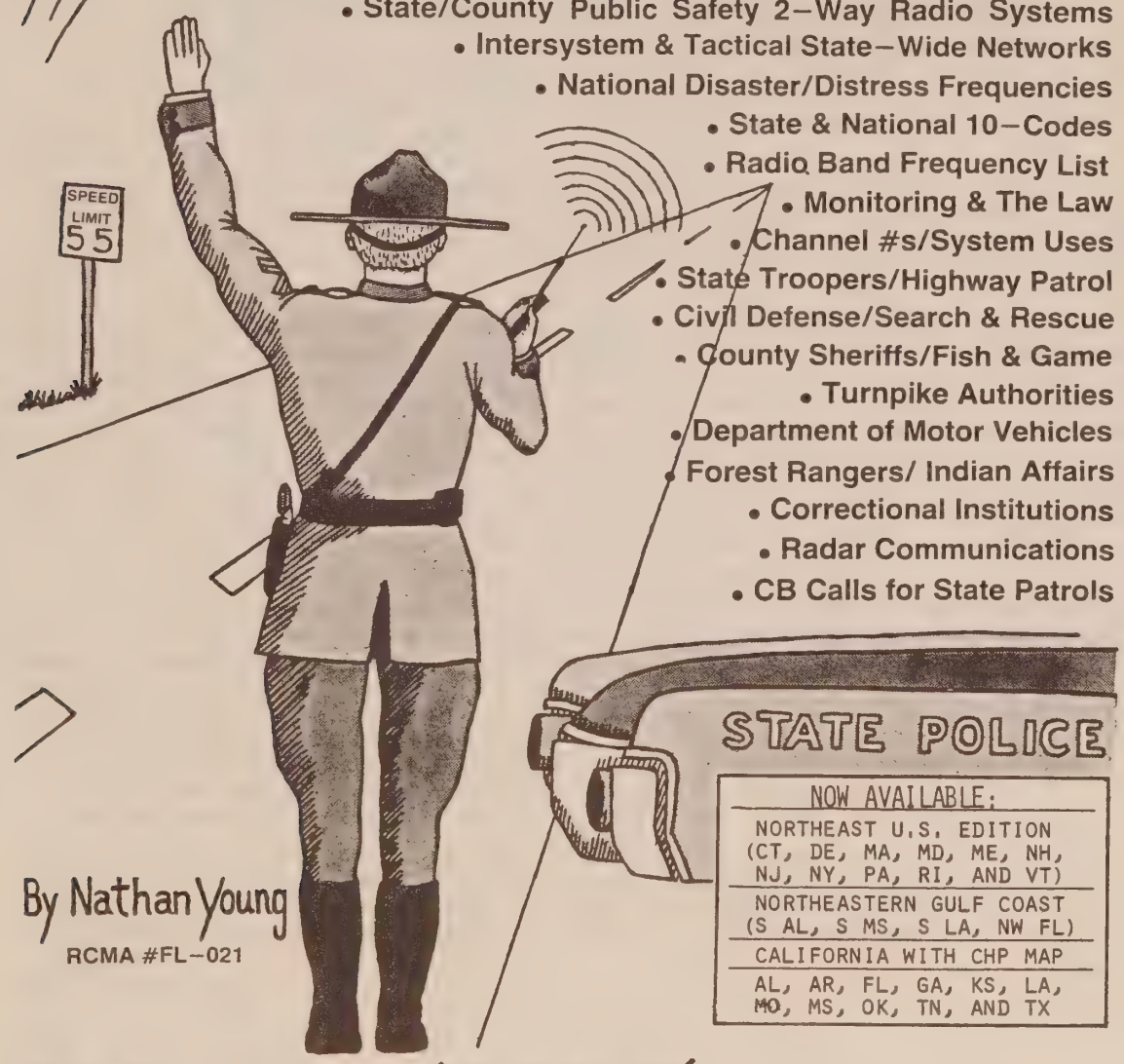

By Nathan Young
RCMA #FL-021

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DEALER INQUIRIES ARE INVITED

Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police, sheriff, fire forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway and street maintenance, port authority/ bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional editors of Public Safety, who are listed below.

PUBLIC SAFETY - EAST

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Connecticut, Delaware, District of Columbia, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia to : Richard Barnett, P.O. Box 428. Newton Highlands, MA 02161.

Greetings once again! You all know that my reports have been mysteriously disappearing every now and then, and as I wasn't sure what exactly was happening I called John Clark to clear things up once and for all. Well, it turned out that in one issue the paste-up crew had my report, but just didn't have room for it as their page quota was filled-up. When I found this out some time ago I called and left a message at John's house to use the same article that they left out for the next issue. Unfortunately John never received the message and thought I just didn't send a report in for that month -the June issue. Thus, the problems have just been accidental mixups and John assured me that no one in the club was upset with me. I hope all my readers understand what has happened and we're all going to be trying extra hard to insure these things don't ever occur again.

The past few months I've been briefly speaking about a book I have been working on for my home state, Massachusetts. Well, it is now completed and is available for $9.95 from my address listed above. It is a 250 page, extremely comprehensive frequency and radio network guide for the state with an overview of all surrounding states -for more info on my book you can also just drop me a line.

I would like to apologize to John Breen for never getting his promised "Scanning Pittsburgh" promo in this article. John, the reason for this I've explained above, but as you see I've had a copy of your excellent local newsletter reprinted below.

Because there has been a space problem lately I've decided to only reprint the Pittsburgh newsletter. Next month I'll prepare a more general, Eastern U.S.-wide column. Another reason for this is that input has really fallen-off lately. This is common for the summer months though and thus I'll consolidate inputs next month.

continued

Railroads

Ken Fitzgerald, Editor

Send information about railroad frequencies and their uses, radio system details, tips for monitoring railroads, explanations of railroad jargon, and related information and questions to: Ken Fitzgerald, 121 East Hackberry, Enid, OK 73701.

NO COLUMN THIS ISSUE

From John Breen. (PA-066) For more information on Scanning Pittsburgh write to John at 3001 Marshall Rd. #228, Pittsburgh, Pa. 15214

Scanning Pittsburgh and allegheny county area

OCTOBER

VOLUME 1 NUMBER 4

THIS NEWSLETTER OR ANY PART OF IT MAY BE COPIED IF CREDIT IS GIVEN TO SP

Frequency Of The Month

151.625 MHZ

THE PITTSBURGH STEELERS (KX9717)

Do you ever take a portable scanner to the Three Rivers Stadium? Maybe you should take one along to one of this season's games - but don't buy any new crystals until we have confirmation of this data from the readers. Other things to listen to while at the stadium? How 'bout 467.750 and 467.762 (KN7460), The Three Rivers Management Corporation. Maybe you can have something "black and gold on the outside, and gold and cold on the inside" (Pittsburgh Brewing Company (KWK512) is 463.750), if you got it past the Gregg Security checkers at the gate. Who can give us the frequency that Gregg Security is using at Three Rivers?

For Your Information

A SHORT MESSAGE FROM THE EDITORS ON MATTERS OF IMMEDIATE INTEREST.

So, the meeting is this month, the 25th of October from 10:00 A.M. to ? We expect to have 12 - 14 Scanning fans on hand, and we certainly hope that you will be among them. If you have not expressed an interest in comming to the meeting, give John Breen a call. We plan to have a map and name tag in the mail to all those who indicated that they will attend. This information should follow SP by a few days. But even if you have not expressed an interest in attending but find that you can make it, call John for the details.

industry items

WHERE WE LOOK AT THE ACTIVITY IN THE AREA OF INDUSTRIAL RADIO COMMUNICATIONS.

That Frequency of the Month reminded us that we have quite a bit of local activity in the relatively few VHF-HI Industrial Frequencies (IB) (IW). Let us take a qiuck look at some of the activity there and invite you readers to confirm and add to the list of 151 MHZ frequencies:

151.490 Wright Industries (KCY718)
151.625 Globe Security (KW8614)
151.625 Pittsburgh Steelers (KX9717)
151.655 Duquesne Light Co. (KDM821)
151.685 Chatham College (KFL481)
151.685 Community Col. of All. Co. (KRL438)
151.685 Hilton Hotel (KSG895)
151.895 Fidelity Security (KLB272)
151.715 Magic Carpet Transport (?) & others
151.745 Jones & Laughlin Stl. Co. (KQZ820)
151.745 Task Security Service (KSF723)
151.775 Presbyterian University Hosp. (KYZ403)
151.790 very active, but what is it?
151.805 Mercy Hospital (KYT458) & others?
151.835 Schneider Dairy (KEW426)
151.835 Goodwill Industries (KJR685)
151.835 Gladieux Food Service (KLV623)
151.835 Allied Security (WYS831)
151.865 Penn Hills Sch. Dist. (KCR704)
151.865 Allegheny Cemertary (WXZ882)
151.895 Kauffman's Dept. Store (KFI780)
151.895 Pinkerton Detectives (KPB604)
151.925 Tri-County Animal Serv. (KIM828)
151.955 St. Claire Mem. Hosp. (KET716)
151.985 Western Union (KJW934) & many Tele.

Tech Topics

WHERE SP EDITOR PAUL BASTIAN TAKES US FOR A TOUR OF TECHNICAL LAND.

Welcome to Technical Topics
When last seen, I was addressing you through the Redball Department. Don't be surprised to see your SP editors jumping from department to department; for a while at least we shall be wearing several hats. My first priority however shall be the T.T. Department, so perhaps I should introduce myself and describe what I shall be doing here in T.T.

I am currently spreading my time over my effort to complete my degree in electronics, working on interesting electronic devices (read, SCANNERS) and doing as much communications monitoring (my hobby) as I can.

In the Technical Topics department, I want to air the opinions of the readers on technical matters, field questions concerning published material, and try to help any of you who are having technical problems with your equipment. I will be the first to admit that I will not have all the answers, but you can bet that I will make every effort to run down those answers. I have some unique resources and avenues of persuit, so when I chase down those elusive answers, I may come up with an interesting angle.

So send along your symptoms and we shall see what we can do. My goal for this department is to provide a forum for technical discussion and to try to help the reader be more knowledgeable about the equipment we use.

Obviously for my ideas for the department to work I will have to he r from you. Your opinions, comments and problems for discussion will be the life blood of the T.T. department. You can write in care of John Breen (see Mailbag) and I will be sure to get your letter. If you need a quick or individual answer, please include a S.A.S.E. and I will get back to you. Don't forget, if you have an answer to a problem discussed in T.T. we would be glad to see it.

Well I seem to have used up all my space for this month, so I will sign off by saying that I am looking forward to meeting you at the October 25th meeting. Next time we will take up the topic of low band interference and alignment problems in the Bearcat 210.

redball

WHERE WE LOOK AT THE ACTIVITY IN THE LOCAL PUBLIC SAFETY AREA.

The ambulance is dispatched by the City radio (453.100 or 453.250) and the Paramedic says "OK, from our station". Where are the MICU stationed? Some, in old firehouses...

Medic 1 Penn & Lang Avenues(Point Breeze)
Medic 2 2406 Saw Mill Run Blvd(Overbrook)
Medic 3 312 S. Main St. (West End)
Medic 4 & Medic 10 Federal & Layfeyette(Northside)
Medic 5 Allequipa & Whitridge Sts.(Oakland)
Medic 6 Butlet & McCandlass Sts.(Lawrenceville)
Medic 7 Winterburn & Formosa Sts.(Greenfield)
Medic 8 S. 18th & Mary Sts.(South Side)
Medic 9 & Rescue 2 24 8th St.(Downtown)
Rescue 1 700 Filbert St.(Shadyside)

"Sally Wagons" Those Salvation Army mobile canteens that get to the scene of the action to provide refreshment for Fire and Police people are designated "SA-1" to SA-n". The "SA" designation is used by Fire Alarm (154.130) when announcing the arrival of the ever welcome "Sally Wagons". (Salvation Army is 464.400 MHZ)

Three Rivers Roundup

WHERE OUR 3R^2 EDITOR, RICH NEWBOULD (PA-027) WILL TOUCH ON MANY AREAS OF SCANNING AND WILL FIELD QUESTIONS FORM OUR READERS.

PRODUCT REVIEW - THE REGENCY M-100 ($199.00 at Murphy Mart and other stores)

The M-100 was recently introduced to the scanner market by Regency as the "Ultimate" in mobile scanners, featuring a special design to withstand the rough treatment a scanner receives when used in a mobile operation.

The M-100 features a touch - entry pad (no keys to depress), blue flourescent display and priority, delay and search functions. In addition the M-100 has a unique day/night selector switch which dims the flourescent display while lighting the touch pad when night mode is selected and brightens the display while extinguishing the touch pad when day mode is selected.

Programming the M-100 is fairly simple and can be mastered with one reading of the user's manual. The program is retained in memory with the help of one 9 volt battery.

I find that the M-100 has excellent sensitivity, allowing me to monitor mobiles that are 25-30 miles away and to copy bases for up to 100 miles, while operating mobile with an A/S tri-band monitor antenna on the roof of my 4x4. The excellent sensitivity trails off a bit when scanning above 170 MHZ in the VHF-HI band. The selectivity is generally above normal with good interference rejection except in the UHF bands. My M-100 receives 458 MHZ inputs throughout the entire 455-460 MHZ segment of the UHF band.

The search feature is great, it even includes a four second hold on any frequency it finds while searching; eliminating the need to sit with your eyes "glued" to the display to catch new frequency finds. BUT, the M-100 allows you to search only a 600 KHZ (yep, KHZ) segment of the VHF-LO band at a time!? A chart is included with the radio which defines the acceptable limits for use in VHF-LO band searching, but unless you have one "hell" of a memory the VHF-LO band search is of limited usefulness.

The radio's durabliity has proven to be excellent. Even while installed in my 4x4, with its rough, bumpy ride, the radio is uneffected. The M-100 is sold with a 12 volt adapter that plugs into the 110 volt (A.C.) outlet and a detachable antenna; so it is not only a mobile scanner, but is equally as useful in you home or office. For the mobile operation the radio is sold with a mounting bracket and external speaker receptacle (allowing for example the mobile use of your unscrambler).

In summary, the M-100 is one of the best mobile scanners on the market, but I hope it's not the ultimate. Regency could make the M-100 tough to beat if it would address the problems of UHF selectivity, and provide more audio output (noise level in mobile operation is obviously greater, and needs to be compensated for).

Please keep those questions and monitoring hints comming in, I am counting on you to supply the topics for the future issues. See you at the October 25th meeting.

Till then, best wishes

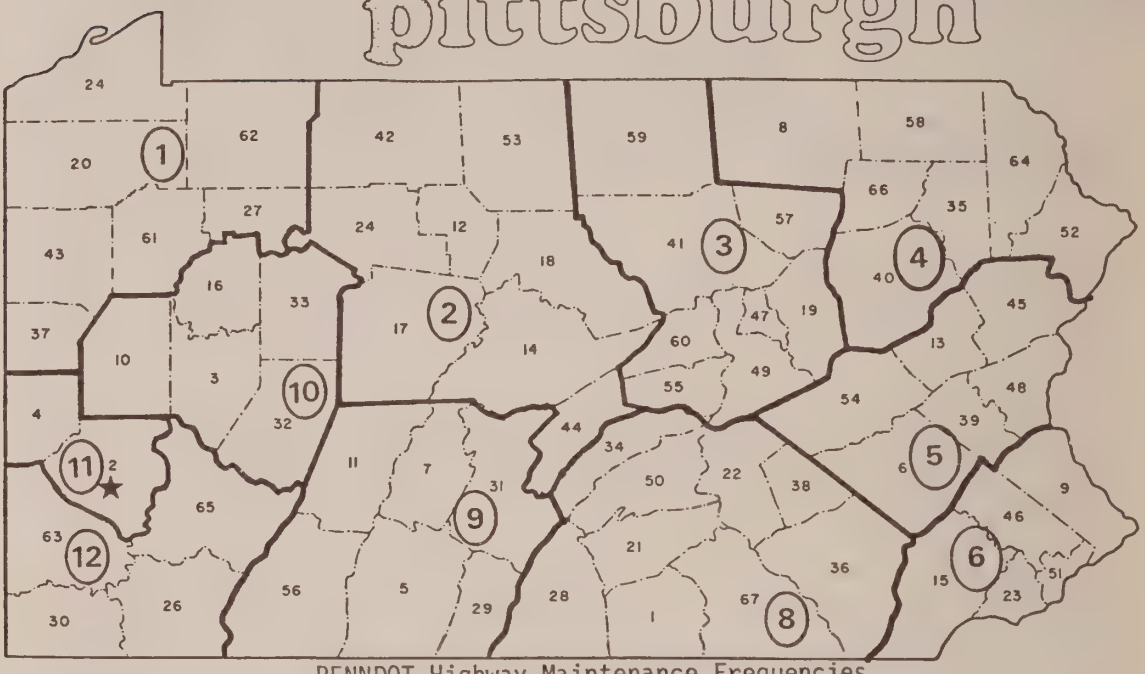
mailbag

All mail can be addressed to John Breen 3001 Marshall Road, Apt. 228, Pittsburgh PA 15214. John is RCMA PA-066.

Telephones: Home - 231-7359, Work (8:30 to 4:30 - 391-2230, Work (after hours or weekends, I am a workaholic) - 288-9965

scanning pittsburgh

Winter is comming and you will want to have the latest data on the roads in Pennsylvania.....



PENNDOT Highway Maintenance Frequencies

(n) = Engineering District

State wide - Mobiles 47.380 MHZ, Bases 47.300 MHZ
West Districts (1, 2, 9, 10, 11, & 12) 47.140 MHZ
East Districts (3, 4, 5, 6, & 8) 47.280 MHZ

PENNSYLVANIA COUNTIES

1. ADAMS
2. ALLEGHENY
3. ARMSTRONG
4. BEAVER
5. BEDFORD
6. BERKS
7. BLAIR
8. BRADFORD
9. BUCKS
10. BUTLER
11. CAMBRIA
12. CAMERON
13. CARBON
14. CENTRE
15. CHESTER
16. CLARION
17. CLEARFIELD
18. CLINTON
19. COLUMBIA
20. CRAWFORD
21. CUMBERLAND
22. DAUPHIN
23. DELAWARE
24. ELK
25. ERIE
26. FAYETTE
27. FOREST
28. FRANKLIN
29. FULTON
30. GREENE
31. HUNTINGDON
32. INDIANA
33. JEFFERSON
34. JUNIATA
35. LACKAWANNA
36. LANCASTER
37. LAWRENCE
38. LEBANON
39. LEHIGH
40. LUZERNE
41. LYCOMING
42. MCKEAN
43. MERCER
44. MIFFLIN
45. MONROE
46. MONTGOMERY
47. MONTOUR
48. NORTHAMPTON
49. NORTHUMBERLAND
50. PERRY
51. PHILADELPHIA
52. PIKE
53. POTTER
54. SCHUYLKILL
55. SNYDER
56. SOMERSET
57. SULLIVAN
58. SUSQUEHANNA
59. TIOGA
60. UNION
61. VANANGO
62. WARREN
63. WASHINGTON
64. WAYNE
65. WESTMORELAND
66. WYOMING
67. YORK

Some of us find the river traffic to be facinating, and in fact next month SP will have an article on the marine frequencies. Let us take a look at a random list of marine frequencies:

Stoltzenbach Coal Co. 156.350 (KJA879)
J & L Steel Corporation 156.350 (KUF696)
Smego Marine Transport Co. 156.500 (KXS368)(KXS382)
Aspinwall Marina 156.425 (KTA414)
Interstate Marine 156.500 (KQR)
Pittsburgh Scrap Copr. 156.500 (WXZ482)
Dravo Corporation 156.600 (KSK382)
RCA (marine ?) 156.600 (KA2XET)
Harmar Coal Co. 156.900 (KEB294)
Dravo Corporation 156.900 (KSK382)
Finleyville Towing Co. 156.950(KZJ364)
Gateway Clipper Fleet 157.025 (KLG326)
McCreary Towing Co. 157.485 (WYD939)
156.800 is for distress calling

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P.O. BOX 7000, COMPTON, CA. 90220

ATTENTION: SPECIAL PRICE FOR RCMA MEMBERS ONLY ON SX-200 SCANNER

Price - $499.95 each

Shipping & Handling - - - - - - - - - - - - - - - - 6.00

Sales Tax (California residents only add 6%)- - _____

TOTAL - $_____

Name_____

ADDRESS_____

CITY_____

STATE_____ZIP_____

Please enclose Money Order or Cashier's Check for above amount.

(Note) If personal check is sent, please allow additional 7 - 10 days for check clearance.

Update

WHERE WE FILL IN THE ANSWERS TO OUR QUESTIONS FROM PREVIOUS ISSUES WITH THE HELP OF OUR READERS.

In volume 1 number 1, we asked if any reader could bring us up to date with the location of the City's fire equipment. A tip of our hat to the Chief's office for filling us in on the current set up.

E = Engine ("Pumper"), T = Truck (Ladder), B.C. = Battalion Chief, S = Squad (Van)
EP = Elevated Platform Truck ("Snorkle"),

1E,1T	344 Blvd. of the Allies (downtown)
4E	210 Stevenson Street (near Mercy Hospital)
5E,5T,26E	Webster, Bedford and Herron Avenues (Upper Hill)
6E	Penn Ave, & 40th Street (Lawrenceville)
7E,25E,25T	22nd and Liberty Ave. (Strip District)
8E,8T,BC3	Penn Circle West and Broad Street (East Liberty)
9E,36T	Stanton Avenue and Hawthorn Street (Stanton Heights)
10E,Medic 3	312 South Maint Street (West End)
12E,12T,S4,BC4	
Medic 8	South 18th and Mary Streets (South Side)
13E,13T	Flowers Ave. and Gertrude Street (Hazelwood)
16E,Medic 1	Penn & Lang Avenues (Point Breeze)
17E,17T	Virginia Ave. & Shiloh Street (Mount Washington)
20E	514 Baldwin Street (Hays)
21E	Walter Ave. and Proctor Way (Knoxville)
22E	Fernleaf and Eccles Streets (St. Claire Village)
23E,23T	1704 Brownsville Road (Carrick)
24E,14T,BC2	McKee Place and Louisa Street (Oakland)
28E,S2	South Millvale Ave. & Maripole Street (Shadyside-Bloomfield)
29E,29T	Braddock & Hamilton Avenues (Homewood)
30E	341 First Ave. (Downtown)
31E,Medic 7	Winterburn and Farnsworth Streets (Greenfield)
32E,BC1	14th Street & Penn Ave.(Strip District)
34E,34T	Northumberland Street & Ahsbury Place (Squirrel Hill)
38E,38T	Lemington Ave. & Missouri Street (Larimer)
39E,39T	Stuben Street & Lorenze Ave. (West End)
40E	Chartiers Ave & Citadel Street (Sheradan)
42E,53T	Hommer & Damas Streets (Spring Garden)
43E,S3,EP2,BC5	1315 Federal Street (N.S. Safety Bldg) (Central North Side)
47E,47T	1124 West North Ave. (Manchester)
50E,50T,53E	Essen Street at Penfort Street (North View Heights)
51E,51T	Lowrie & Froham Streets (Troy Hill)
52E	Shadeland Ave. & Dickson Street (Upper North Side)
54E	Perrysville Ave. & Bonvue Street (North Side - Perry Hilltop)
55E,45T	1519 Orchlee Street (Upper North Side)
57E,57T	Castlegate Ave. & Brookline Blvd. (Brookline)
58E,Medic 5	Allequippa & Whitridge Streets (Oakland)
59E,Medic 2	2406 Saw Mill Run Blvd. (Overbrook)
60E	Beechview Ave. & Sebring Street (Beechview)
61E	Homestead & Commercial Streets (Swissvale Park)
EP1,S1	1334 Forbes Ave. (Near Mercy Hospital)

The Deputy Chief ("The Deputy") is at the Pittsburgh Public Safety Bldg. during the day and at 1334 Forbes Ave. at night.

Please remember, never go to a fire that you hear reported on your scanner. Every time a piece of fire equipment is dispatched the firemen are in serious danger from traffic. Do not add to that danger; and do not hinder the movement of the Medic and Police units. As scanners we hear privileged information, and have to act responsibly.

SINCE WE HAD A CHANCE TO TALK TO A COUPLE OF CITY BATTALION CHIEFS WE THOUGHT THAT WE WOULD BRING YOU UP TO DATE ON THE "JARGON" OF THE CITY FIRE DEPARTMENT.

Alarms The first alarm is that which initially dispatches the fire units to the fire. The Battalion Chief decides if additional units are needed. If in the judgement of the BC additional equipment is needed he will call for a second alarm. "Fire Alarm" (the fire dispatcher) will then announce that "box nnnn is now a two alarm fire" this will determine which units move for "fills". The Deputy Chief ("The Deputy") will respond with the units sent for the second alarm If the Deputy feels that additional equipment is needed, he will call for more alarms. Up to five alarms may be called, any additional alarms make it a "gereral alarm" fire. The Deputy may call "special alarms" as he sees fit. The Deputy also responds to all first alarms in the first district (downtown).

A"still alarm"is an alarm that comes in to Fire Alarm via the "911" emergency number or comes into an individual firehouse via phone (a company still). Essentially any information received without a fire box being "pulled" is referred to as "a still alarm".

Boxes When an alarm comes into "Fire Alarm" via a street (or master) fire alarm box, Fire Alarm will dispatch the appropriate units and declare that "fire box nnnn is now working". This tells the fire units responding, which box has to be "set-up" when they are ready to leave the scene. The unit leaving after setting up the box will declare "box nnnn is set up, last unit leaving the scene". Fire Alarm will announce that "fire box nnnn has now struck out", meaning that the box is available to be used in case of fire. Fire Alarm will then usually announce the "incident number" and "time" (or "time out") for the responding units to use in doing their "paper-work". "Master Boxes" are usually loacated in larger facilities or buildings, where there are several (or many) remote alarm boxes (e.g. one on each floor of a building) which can be "pulled" to report the fire through the central box.

Fills When a second or subsequent alarm is sounded, additional units from the same fire district are dispatched to the scene. Obviously this can't happen without causing the district to be short on equipment. To overcome this situation there has been implimented, a plan to transfer units from an adjacent district, into the district which has the multi-alarm fire. These units stand by at the firehouse that has been depleted by the fire and answer any calls on that house (including the next alarm for the same fire). As alarms are announced the adjacent districts move these "fills" to the appropriate stand by locations. Fire Alarm will usually anounce "there will be a fill" to alert the companies to consult the plan to determine if they should move. Sometimes, to be sure, a company will be heard to ask Fire Alarm, who are the "fill companies" on a given alarm. Also a BC will sometimes be heard to ask Fire Alarm which units he will get when he calls an additional alarm. When units leave the scene they tell Fire Alarm that they are "in service, returning" which alerts Fire Alarm that although they are enroute they are available for calls. When a unit arrives at its home firehouse, Fire Alarm will announce that the unit is "home and in service". This alerts the filling companies to go home or for those that are "on alert" for a move to fill, that they can stand down. When the units leave the scene of a fire where they have used lengths of hose to fight the fire you will hear them call ahead to their home firhouse, to "let down" an appropriate number of lengths of dry hose from the hose drying tower to replace the wet hose which will be removed from the unit and hung up to dry when they arrive home. They may ask for "3 little ones, and 3 big ones", which means 3 standard lengths each of 1 1/2 and 2 1/2 inch diameter hose.

Fire Prevention When a fire has in the judgement of the attending BC, been of a questionable nature or if a fatality is involved it will be investigated by "F.P."

PUBLIC SAFETY - CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, Tennessee, and Texas to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301

Send material and questions for Illinois, Indiana, Wisconsin and Michigan to: John Arendt, 327 Boulder Hill Pass, Oswego, IL 60543.

GREETINGS! Welcome to yet another PS-Central Column. You folks are doing a fine job of keeping all of our mailboxes filled. Keep up the good work! You're helping to make this one of the most factual columns going. I'll talk for just a bit on some new sources of data and then on to another exciting column. If you have had problems locating facts about state agencies- highway patrol, prison systems, conservation, fish & game, etc. and don't know where to look, here is a suggestion. In Missouri (and probably most other states) the state publishes a State Manual every two years. This manual lists lots of facts and information about the state. While it doesn't give frequency information, it does list information and locations on a number of state agencies. The Missouri Official Handbook lists the State Patrol Districts, and more. These can be found in most any public library, or from your State congressman. They're very handy for research, and it might be a good way to spend an afternoon at the library.

Another developing project of me and the St. Louis Chapter is microfiche. Several columns have been written on the subject, so I'll not dwell on the hows and wheres, but I certainly do recommend it. If you can't afford a reader, most libraries have microfiche machines available. Richard Prelinger (NY-?, former CA-SF-002) is embarking on a project to secure a non-classifed IRAC frequency list on microfiche. If enough of us support Rich, the cost will come down and a very worthy and factual group of microfiche cards will be available to us. For more information, write to Rich Prelinger, P.O. Box 438, Canal St. Station, New York, NY 10013. While we're talking about other ambitious persons' endeavors, I'd like to mention two publications I've heard highly of...the 1981 Police Call Directories and the Code 20 Directories of Nathan Young. I have a copy of Mr. Young's directory, and hope to have Police Call shortly. There is certainly a wealth of information on the market for the monitoring hobbyist. On to another full column...

MISSOURI

RICK (MO-041) has provided this information for the Northwest area of Missouri:

Andrew, Atchison, Holt, and Nodaway County Police Frequencies

Frequency	Channel Name	Call Sign/Description
154.845	Regional	KXC 920: Areawide base repeater in Maryville. (Input 156.03??)
154.950	"Channel 3"	KAG 846: Atchison Co. mobiles.
155.370	Point to Point	Base to base with Iowa sheriffs or St. Joseph Highway Patrol. (St. Joe response on 42.06)
155.415		KAF 653: Andrew Co. dispatch and mobiles.
155.730	Sheriff's Frequency	KAF 653: Andrew Co., KAG 846: Atchison Co., KAG 627: Holt Co., KAF 568: Nodaway Co. base and mobiles / base to base.
156.210	Municipal	KFY 402: Maryville PD base/mobile.

(I have monitored no traffic on the following frequencies listed by the 1980 Police Call to Atchison and/or Nodaway Counties: 155.475, 155.670, or 465.200.)

Atchison Co. Fire and Medical Frequencies

154.190	Atchison Co. Fire Departments.
154.280	Atchison Co. Fire Mutual Aid.
155.865	Atchison-Holt Ambulance District, Fairfax Hospital.

(155.475 is the Mutual Aid Frequency for Police and Ambulance in Missouri-hence the lack of day-to-day traffic.) Thanks, Rick!

In the St. Louis area, the frequency 153.830 is being developed as a portable to portable frequency for fire chiefs at the scene of major fires. Fire Mutual Aid is 154.280. These are two channels to keep or enter into your monitor when a major fire erupts in your neighborhood.

TEXAS, OKLAHOMA, LOUISIANA, ARKANSAS, MISSISSIPPI, ALABAMA

The month sure went by fast and here it is time for another column deadline. This column started off short but grew as it was near completion. The mail has not been very heavy but then spring time(as this was written) fever has probably hit everyone just like it has hit this editor.

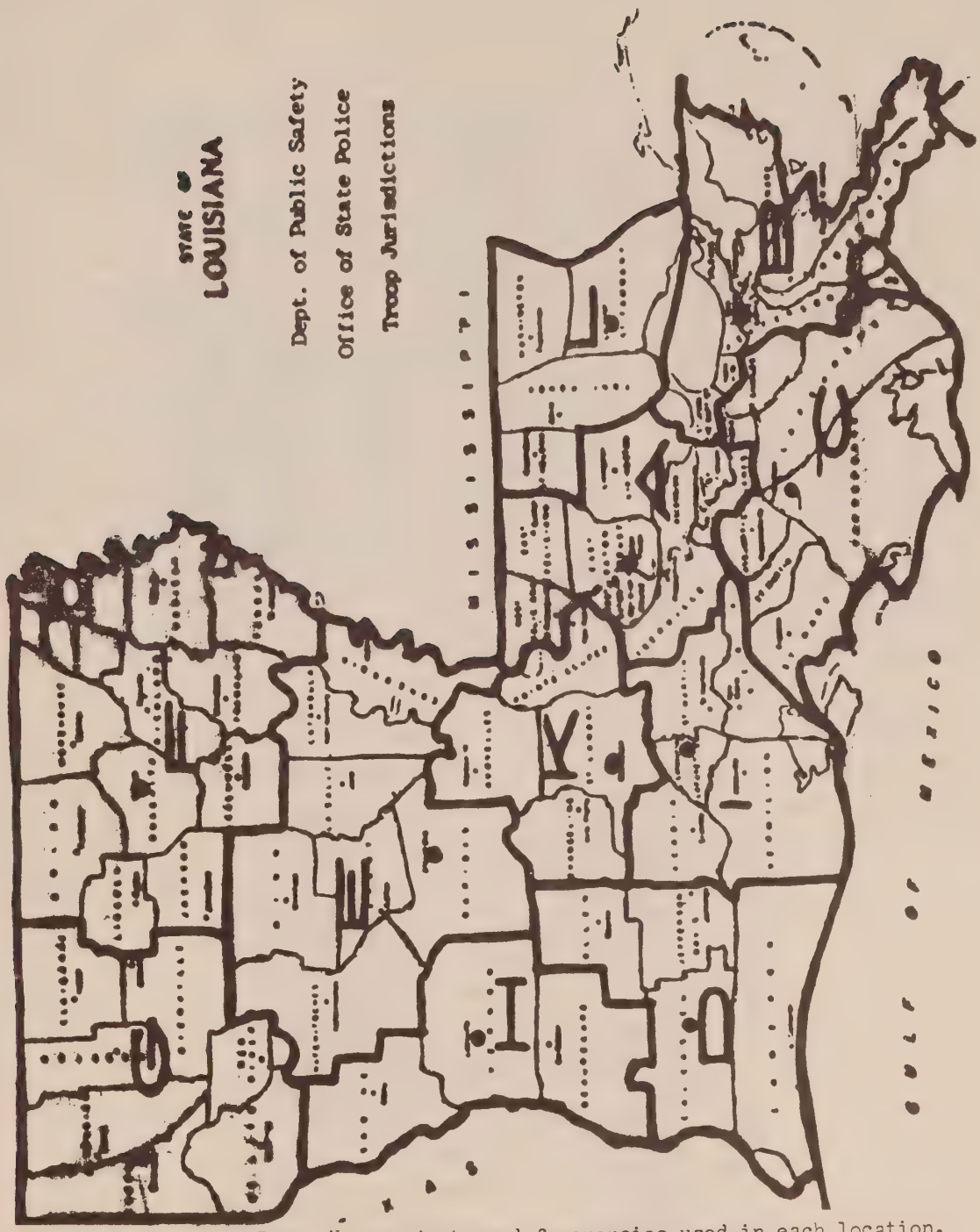
Since the last column I have been able to look over in more detail the 1981 Police Call, Vol 7 for Texas listings. Not surprising are more and more UHF licenses as that seems to be the national trend. For example, the city of Austin, I see has staked their claim onto some UHF frequencies. In the near future I am sure we will be hearing more about some phase-in plans for the new communication system being provided by recent bond elections, which will include changes in building facilities as well.

Last month I reported that the military MAST program in the AACOG area (AACOG= Alamo Area Council of Governments, an area planning agency) was not equipped to communicate with area law enforcement agencies nor with hospitals or EMS agencies. The AACOG agency is now holding a media campaign to raise funds to purchase $40,000 worth of communications gear.for use on-board the helicopters.

As promised last month, this column will have some information on states other than Texas. First off, from the state of Louisiana comes this information from TOM, LA-??? (number unknown to this editor):

The Louisiana State Police troop jurisdictions (depicted on accompanying map):

Troop	Location	Callsign
A	Baton Rogue	KKC 373
B	New Orleans	KKC 590
C	Gray	KKC 545
D	Lake Charles	KKC 592
E	Alexandria	KKC 593
F	Monroe	KKC 594
G	Sheveport	KKA 720
H	Leesville	KKC 595
I	Lafayette	KKE 860
K	Opelousas	KKG 531
L	Covington	KKY 729



That's a fine map, Tom. Now we just need frequencies used in each location. Tom also sent in the New Orleans Fire Dept unit numbering system:

New Orleans Fire Dept unit numbering---

Car 100 Superintendent
Car 200 Assistant Superintendent,
Car 300's Fire District Chief (last digit denotes district #)
Car 400's Deputy Chief for co-ordination
Car 500 " " for Pct on duty
Car 600's Executive Dept Division
Car 700's Fire Prevention Div.(w/ fire inspectors & arson investigators)
Car 800's Fire Boats

Thanks for that input Tom! Out of curiosity, what numbers do the engines and ladder trucks use? Tom has also supplied some 10-codes which are reproduced elsewhere in this column.

From: TOR, LA-???

The New Orleans PD 10-code and dispatch codes:

POLICE RADIO SIGNALS

10- 1	Receiving Poorly
10- 2	Receiving Well
10- 3	Stop Transmitting
10- 4	Message Received
10- 5	Relay Message
10- 6	Call your Home
10- 7	Out of Service (Completely)
10- 8	In Service
10- 9	Repeat
10-10	Out of Service Temporarily (but available)
10-11	Dispatching too Rapidly
10-12	Officials or Visitors Present
10-13	Advise Weather and Road Cond.
10-14	Your Destination
10-15	Prisoner in Custody
10-15-M	Prisoner in Custody (Mental Case)
10-16	Pick up Prisoner (Male)
10-16-F	Pick up Prisoner (Female)
10-16-J	Pick up Prisoner (Juvenile)
10-16-M	Pick up Prisoner (Mental)
10-17	Advise names of officers in unit
10-18	Return for additional information
10-19	Return to Station
10-20	What is your location
10-21	Call your Station
10-22	Cancel last assignment
10-23	Stand-by
10-24	Registration (check)
10-25	Stolen(check)
10-26	Record (check)
10-27	Wanted (check)
10-28	Request Emergency Clearance
10-29	Confidential Information
10-30	Correct Time
10-31	Checking Clear
10-32	Under Control, no other units needed
10-33	Does not conform with rules and regs.
10-34	Unit and Officers left City
10-35	Unit and Officers returned to City
10-36	White and Negroes involved
10-40	Lunch, Break
10-41	Coffee Break
10-42	Restroom Facilities
10-50	Not available for Assignment — Reasons unkown
10-97	Arrived at Scene
10-98	Completed last Assignment
10-99	Change Channels

POLICE COMPLAINT CALLS

14	Ambulance Enroute
15	Citizen holding a Suspect
17-F	Fugitive Attachment
17-J	Juvenile Attachment
17-M	Municipal Crt. Att.
17-T	Traffic Attachment
18	Traffic Incidents (other then those designated by signal code)
19	Simple Drunk
19-H	Habitual Drunk
20	Auto Accident
20-A	Airplane Crash
20-F	Fatal Accident
20-I	Injury Accident
21	Complaint
22	Disperse Subjects
23	Traffic Congestion
24	Ambulance Request
25	Call Dispatcher
26	Meet an Officer
27	Attempt Crime
28	Inciting a Felony
29	Death
29-S	Suicide
30	Homicide
30-C	Homicide by Cutting
30-S	Homicide by Shooting
34	Aggravated Battery
34-C	Cutting
34-S	Shooting
35	Simple Battery
37	Aggravated Assault
38	Simple Assault
39	Negligent Injury
42	Aggravated Rape
43	Simple Rape
44	Aggravated Kidnapping
45	Simple Kidnapping
51	Aggravated Arson
51-B	Bomb Scare
52	Simple Arson
52-E	Explosion
52-F	Fire
54	Placing Combustible Material (Fire Bomb)
58	Contaminating Water Supplies
59	Criminal Mischief
59-P	Taking Temporary Possession
60	Aggravated Burglary
62	Simple Burglary
62-A	ADT
62-B	Business Burglary
62-C	Theft from Interior of Auto
62-R	Residence Burglary
62-S	Safe Burglary
63	Criminal Trespass (Prowler)
63-S	Sit-Ins
63-A	Aiding and Abetting Sit-Ins
63-D	Demonstration
64	Armed Robbery
64-G	Armed Robbery (Gun)
64-K	Armed Robbery (Knife)
65	Simple Robbery
65-P	Purseanatching
66	Extortion (Threats)
67	Theft
67-A	Auto Theft
67-B	Theft of Bicycle
67-C	Theft from Exterior of Auto
67-P	Pickpocket
67-S	Shoplifting
68	Unauthorized use of Movables
69	Possession of Stolen Property
71	Issuing Worthless Checks
72	Forgery
80	Carnal Knowledge of a Juvenile
81	Indecent Behavior
82	Prostitution
83	Soliciting for Prostitution
84	Pandering
87	Abortion
89	Crime Against Nature
90	Gambling
90-C	Gambling by Cards
90-H	Gambling by Handbook
90-L	Gambling by Lottery
90-P	Gambling by Pinball
91	Unlawful Sales to Minors
92	Contributing to the Delinquency
93	Cruelty to Juveniles
94	Illegal use of Weapons (Discg. Firearms)
94-F	Fireworks
95	Illegal Carrying of Weapons
95-G	Illegal Carrying of Weapons (concealed Weapon - Gun)
95-K	Illegal Carrying of Weapon (Concealed Weapon - Knife)
97	Picketing
98	D.W.I.
99	Reckless Driving
100	Hit & Run
101	Desecration of Graves
102	Cruelty to Animals (Mad Animals)
103	Disturbing the Peace (Disturbance)
103-F	Fight
103-R	Riot
106	Obscenity (Exposing Person, etc.)
107	Suspicious Person
108	Resisting an Officer (Off. needs assistance)
109	Aggravated Escape
110	Simple Escape
112	False Personation (Impersonating an Off.)
116	Flag Desecration
118	Public Bribery
284	Peeping Tom
982	Drug Law Violations

PHONETIC ALPHABET

A—ADAM
B—BAKER
C—CHARLIE
D—DAVID
E—EDWARD
F—FRANK
G—GEORGE
H—HENRY
I—IDA
J—JOHN
K—KING
L—LEWIS
M—MARY
N—NANCY
O—OTTO
P—PETER
Q—QUEEN
R—ROBERT
S—SUSAN
T—THOMAS
U—UNION
V—VICTOR
W—WILLIAM
X—X RAY.
Y—YOUNG
Z—ZEBRA

From: TOM, LA-???

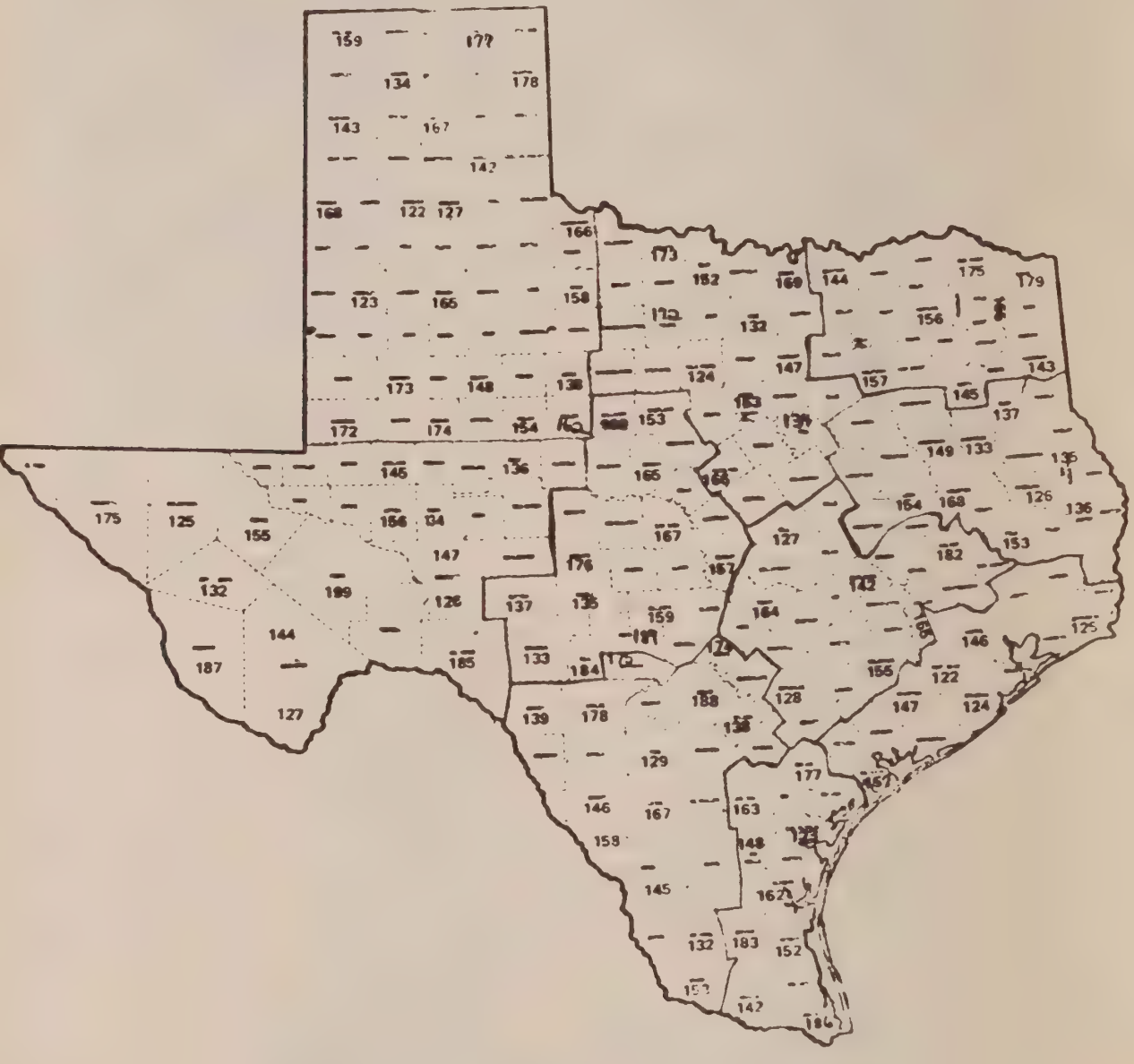
The Louisiana State Police 10-code:

10— 1	Receiving poorly
10— 2	Receiving well
10— 3	Stop transmitting
10— 4	Received OK
10— 5	Relay message
10— 6	Busy, will call
10— 7	Out of service
10— 8	In service
10— 9	Repeat message
10—10	Out of service, subject to call
10—11	Dispatching too fast
10—12	Officials or visitors present
10—13	Advise weather or road conditions
10—14	Convoy or escort
10—15	We have prisoner in custody
10—16	Pick up prisoner at_____
10—17	Pick up papers at_____
10—18	Complete assignment as soon as possible
10—19	Return to office
10—20	Give your location
10—21	Call office by telephone
10—22	Take no further action last information
10—23	Stand by until channel clears
10—24	Trouble at station, all mobile units return
10—25	Do you have contact with_____
10—26	Can you obtain data from_____
10—27	Any answer our number_____
10—28	Check registration on_____
10—29	Check for stolen on_____
10—30	Does not confirm with rules and regulations
10—31	Is lie detector available?
10—32	Is drunkometer available?
10—33	Emergency traffic at this station, stand by
10—34	Clear for local dispatch
10—35	Confidential information
10—36	Give me correct time
10—37	Give name of operator on duty
10—38	Station report satisfactory
10—39	Your number_____delivered to addressee
10—40	Advise if Officer_____available for radio call
10—41	Tune to _____Kc for test call from_____
10—42	Officer_____now at home
10—44	Station_____is calling your station
10—49	Pick up person at_____
10—50	No traffic for you, resume patrol
10—51	Message for delivery via telephone
10—52	Message for assignment to written summary
10—60	What is next message number
10—61	Stand-by for CW traffic
10—62	Unable to copy on phone, use CW
10—63	Net in use, stand-by will advise when clear
10—64	Net clear, go ahead with traffic
10—65	Clear for message or assignment
10—66	Clear for cancellation
10—67	All stations re-transmit following
10—68	Repeat dispatch
10—69	Have you dispatched
10—70	Net message for all stations
10—71	Proceed with traffic in sequence
10—80	Tower lights out as follows_____
10—81	Officer_____will be at your station_____
10—82	Reserve room with bath at hotel for_____
10—83	Have Officer_____call this station by telephone
10—84	Advise telephone number your city that officer_____will not return this date
10—85	Officer_____left this station for _____at_____
10—86	Officer number_____left this station for_____at_____
10—87	Officer number_____will be in _____if Officer number_____will be in
10—88	What telephone number shall we call to make station to station call to Officer number_____?
10—89	Request radio serviceman be sent to this station
10—90	Radio serviceman will be at your station_____
10—91	Prepare for inspection of_____at your station at_____
10—92	Your quality is poor
10—93	Frequency checked date_____ time_____
10—94	Test with carrier on, but no voice
10—95	Turn station on and off several times for test
10—96	Test with tone for_____time
10—97	Arrived at scene
10—98	Finished with last assignment
10—99	Unable to receive your signals

EMERGENCY SIGNALS

31	Drunk
32	Drunk Driver
33	Hit and Run Driver
34	Prowler
35	Suspicious Person
36	Fight
37	Family Trouble
38	Mad Dog
39	Payroll Transport
40	Disorderly Person
41	Burglary
42	Hold Up
43	Assault
44	Stabbing
45	Shooting
46	Larceny
47	Purse Snatcher
48	Stolen Car
49	
50	
51	Fire
52	Auto Accident
53	Suicide
54	Investigation
55	Boy Annoying
56	Traffic Congestion
57	Bad Street Condition
58	Call Dispatcher
59	
60	

TEXAS DEPARTMENT OF PARKS & WILDLIFE
Repeater location map
(refer to May issue of newsletter for text and roster of locations)



From SCOTT, AL-015:

Birmingham Area Frequencies

Sheriff Dispatch Frequencies

Jefferson County Sheriff Dept--- 45.900 B/M
" " Detectives--- 45.740 B/M
St Clair County Sheriff Dept--- 154.040 Repeater? (input freq-??)
Shelby County " " --- 154.785 Repeater? (input freq-??)

City of Birmingham

Birmingham Water Dept-- 153.440 (B/M ?)
" Civil Defense-- 453.300 (repeater ?)

Jefferson County EMS Ambulances

A & A Ambulance--155.220
Hank's Ambulance--155.235 (ed note: my Police Call shows it as Mack's)
Suburban Ambulance--155.160
Carraway Hospital Life Flight Aircraft--155.355
H.E.A.R. net---155.340

Alabama State Police

155.010-- Statewide law enforcement mutual aid
155.475-- ASP Base-to-car and also car-to-car (used statewide)
155.445-- ASP Car-to-base (paired with above freq)(used statewide)

Thank you Scott for that fine input for the Alabama section of my column. We will all be looking forward to further updates from you and from your area.

And before I close I would like to clarify something. I am now responsible for material from the state of Alabama in addition to the states originally assigned to me of Arkansas, Louisiana, Mississippi, Oklahoma, and Texas. So any material for the above listed states should be sent to my address. That's it for this month. See you next month with more.

Last minute insertion: In the May issue of the newsletter, PS-Central column, my article on the Texas Parks & Wildlife Dept refers to a map depicting the P&W's repeaters. That map was not published along with the remainder of the article. This may have caused some confusion for some readers. I will try making another copy of the map and it accompanys this column for publication, if it makes a clear copy for publication purposes.

And send that material to Ken at 108 E. Centre St., Fredericksburg Texas, 78624. Send it today and don't forget the S.A.S.E!

ILLINOIS, INDIANA, WISCONSIN, MICHIGAN

Greetings to all RCMA members from Oswego (and the Chicago Area RCMA Chapter). What's started off as a rather quiet month (column wise) has ended in a busy flourish.

First of all--a reminder of upcoming Chicago Area RCMA Chapter meetings: Saturday, Aug. 8th and Sunday, Sept. 27th. Both meetings at Mancini's starting at 1:30 P.M. (doors open at 1).

Now on to the business at hand.

RCMA CHICAGO CHAPTER MEMBERS TOUR I.S.P. DIST. 3-CHICAGO A unique opportunity was offered on the evening of Friday, May 8th. Twelve (12) members and two (2) guests were on hand when the tour started at 7 P.M. sharp. Public Information Officer Kathy Sauter, Radio Technician Rod Newkirk, and one of his associates were on duty at the time.

After opening statements and a short "question & answer" session, we were ushered into the dispatching area. Console operations were observed and photographed. The balance of the evening was spent in the separate building housing radio repair facilities.

Some of the interesting observations included:

1. The facility (including the radio tower) is shared with the Illinois Dept. of Transportation.
2. Dept. of Criminal Investigation operations for Zone 3 (roughly equivalent to the area covered by Dist. 3) are conducted at a separate location up in DesPlaines.
3. The radio repair facility also services the Dept. of Criminal Investigation and Secretary of State's equipment.
4. "Mobile Extenders" are being used in selected vehicles in Dist. 3 (and neighboring Dist. 4)-the freq. being 155.505 (This was not generally known).
5. Digital Voice Privacy (DVP) radio equip. was present. It is being used by the Dept. of Criminal Investigation for surveillance purposes, etc. in the Chicago area. (This tour pretty well confirmed a story in a previous Newsletter about DVP coming into use by the IL Dept. of Law Enforcement).

The tour was concluded at approximately 9:30 P.M.

All members and guests in attendance definitely had a most enjoyable and enlightening evening. For those of you that missed this unique opportunity, do not worry-as arrangements are possible for another tour (of another I.S.P. facility) at a later date.

We are deeply indebted to the wonderful people at I.S.P. Dist. 3 (a formal letter has been sent out to that effect) for showing us how our tax money is properly being utilized and for furthering our monitoring hobby.

Bill, (IL-020) our former Satellite editor, has sent in a wealth of information about the McLean County, IL communications system. A major change to a new series of UHF channels is being made. The new system should be operational by the time this information is published in the Newsletter. Best to entitle this contribution MC LEAN COUNTY, IL COMMUNICATIONS

1. Sheriffs Dept. Cars will be e/w two radios (1-UHF and 1-high band) covering a total of 16 channels. The cars will also be e/w high-band vehicular repeaters on 154.650 which will extend the range of the new UHF channels. Three UHF rptr. channels plus 1 UHF paging only channels will fill the UHF radio. The existing high-band rptr. on 154.815 will be maintained, but its use will be for a new rural police network to link all rural PD's with the sheriff's dept.
   453.675 Rptr. Out-new county SD channel
   453.575 Rptr. Out-new general operations channel for health dept., parks, coroner, maintainence, etc.
   453.700 Rptr. Out-existing civil defense channel
   154.815 Rptr. Out-(159.030 in)- existing county SD channel to be converted for rural PD use.
2. Civil Defense (ESDA) made up of 6 different zones. (Zone 1, based at Lexington, Zone 2 based at Colfax, Zone 3 based at LeRoy, Zone 4 based at McLean, Zone 5 based at ISU-Normal, and Zone 7 based at Carlock. "Zone 6" is not used in order to avoid confusion with I.S.P. Dist. 6 units).
   453.700 Rptr. Out or Simplex
   45.520 Simplex (back up freq.)
   Citizen's Band
   154.190-County Fire Channel
   The County-wide Emergency Operations Center (EOC) is capable of communicating with all zones on all freqs.
3. Fire Depts. The local fire depts. are making a change and are now buying new multi-channel high band radios. The cities of Normal and Bloomington will change their city fire channel from old 154.190 to new 154.160 by 1982.

   Rural FD's
   F1-154.190 County Fire Channel
   F2-154.265 Mutual Aid Channel
   Normal FD
   F1-154.190 County Fire Channel
   F2-154.265 Mutual Aid Channel
   F3-154.160 City Fire Channel (by 1982)
   F4-155.055 Statewide 911 Channel

Bloomington FD
F1-154.190 County Fire Channel
F2-154.265 Mutual Aid Channel
F3-154.160 City Fire Channel (by 1982)
F4-153.830 Tactical Fireground Channel

Bill-my thanks for a most comprehensive contribution.

Bill (IL-020) tops off his McLean County, Il contribution with the complete details of the communications system used at Illinois State University at Normal. Even though it's a "campus operation", I'm covering it in Public Safety-as 6 of the 8 freqs. are licensed to state and/or local govt. agencies.

ISU-NORMAL COMMUNICATIONS SYSTEM

8 channels are used, with the primary uses outlined accordingly. The first 5 channels have rptrs. located on campus.

Ch. 1 - 453.900 rptr. or simplex=Police
Ch. 2 - 453.650 rptr. or simplex=General Services
Ch. 3 - 453.600 rptr. or simplex=Maintainence
Ch. 4 - 453.700 rptr. or simplex=McLean County ESDA
Ch. 5 - 453.875 rptr. or simplex==Special Events
Ch. 6 - 462.825 simplex=Paging
Ch. 7 - 35.900 simplex=Weather Alerts
Ch. 8 - 155.475 mobiles=NLEEF-ISPERN

Radio identifiers are as follows:

U5-01 thru U5-09 Environmental Health and Safety (Base ID's as "Safety Office")
U5-10 thru U5-59 University Police (Base ID's as "Illinois")
U5-60 thru U5-69 Parking Services (Base ID's as "Parking")
U5-70 thru U5-79 Special Operations (no base)
U5-80 thru U5-85 Media Services (Base ID's as "Media Services")
U5-86 thru U5-89 Assault Prevention & Security Committee (Base ID's as Escort Base)
U5-90 thru U5-96 Athletic Operations (no base)
U5-97 thru U5-99 Extertainment Committee (no base)
U5-plus operator's name Physical Plant (Bases ID as "Physical Plant" & "Heating Plant")

Bill, thanks are in order for providing an insight into the radio operations conducted by a major state university.

Doug (IL-175) sends in a contribution covering the fire depts. in the Kankakee, IL area.

KANKAKEE (IL) VALLEY FIREMEN'S ASSOCIATION All operations are conducted in the 33MHZ band, with 33.74 being the common (or mutual aid) freq. 10-codes in use pretty much follow the standard 10-codes used throughout the county with the following exceptions:

10-52 Emergency Squad Call
10-53 Street or RR Crossing Blocked
10-54 At Home
10-60 Police Squad on Way
10-62 Come In Easy
10-64 Open Door
10-65 Close Door
10-82 Visitor in Station
10-84 Coffee at Fire Scene
10-85 Section 1-2 or 3 Lights
10-86 Cancel the Lights
10-90 Automatic Fire Alarm
10-97 False Alarm
10-102 Inspection
10-103 Training at____

Second freqs. in use include 33.44-Bourbonnais City, 33.66-Kankakee Twp., 33.78-Kankakee City, and 33.88-Bradley, Manteno, Bourbonnais Rural.

Numbering system for vehicles is as follows:

Limestone #1-9, #7-Chief, #5 (2I16) - Emerg. Squad
St. Anne #10-19, #13-Chief, #18 (2I21) - Emerg. Squad
Bourb. City #20-29, #20-Chief, #21 (2I13) - Emerg. Squad
Otto #30-39, #34-Chief, #30 (2I26) - Emerg. Squad
Bradley #40-49, #45-Chief, #40 (2I12) - Emerg. Squad
Aroma Park #50-59, #56-Chief, #51,55 (2I14,35) - Emerg. Squad
Bourb. Rural #60-69, #68-Chief, #60 (2I11) - Emerg. Squad
Manteno #70-79, #71-Chief, #70 (2I19) - Emerg. Squad
"KKK" Twp. #80-89, #80-Chief
Momence #90-99
Reddick #100-109 #104 (2I25) - Emerg. Squad
Grant Park #110-119 #119 (2I17) - Emerg. Squad
Herscher #120-129 #124 (2I18) - Emerg. Squad
Pembroke #130-139
Cabery #140-149

Essex #150-159 (2I15)
Salina Twp. #160-169, #160-Chief
"KKK"City Car 1-Chief, SQ1-2 (2I20) - Emerg. Squad
Henson (2I22) - Emerg. Squad
The 2-Ida unit # refer to the statewide MERCI network.
Doug also advises that the Kankakee City PD uses Post # to identify various restaurants in town (the exception being Post 21-"Home"). A last minute contribution states that the "Maple Medical Service" in Momence has taken to the air with 155.220 being used for base-mobile work.

Following up my previous columns, Rich (IL-129) reports further use of local govt. freqs. by law enforcement agencies in addition to (or instead of) the regular police-licensed freqs. shown in the "Police Call". Here are some of Rich's observations:
155.940 - North Riverside, IL P.D.
155.805 - Oakbrook, IL P.D.
154.980 - LaGrange, IL P.D.
155.145 - Burr Ridge, IL P.D.
154.040 - Elmhurst, IL P.D.
155.055 - Portage, IN P.D. (This is a rptr. output)

Rich (IL-129) reports that the TRICOM dispatch center (Batavia/Geneva/St. Charles IL area) instructs police units to switch to the "I.R.E.A.C.H. freq." when the 470MHZ transmitter goes out of service. Your Editor has found the "IREACH" freq. to be 155.055. (What we've formerly known as "PSAP" or "911"). The latest FCC microfiche files reflect additional licensing covering all of Lake County, IL plus selected locations downstate for this freq. (A new call sign of WQF853 has been observed in use by TRICOM).

Bill (IL-007) has sent in several newsclippings about publis safety news in the Rock Island, IL area. I'll summarize them as follows:
1. "Scanner listener program" has been established by the Rock Island P.D. After applying and going thru a background check, the listener is assigned a code number.. They can then serve as the "eye of the police". Suspicious events, etc. are reported over the telephone by code number. All reports are anonymous (no court testimony, no police reports, etc.) . Approximately 50 listeners have already participated in the first year of operation. Some success has been reported, but better results would be obtained if the number of listeners were greater-thus providing better coverage of the city.
2. New vehicles for fire and emergency medical purposes have been put into service by the Rock Island police and fire depts. Multi-channel radios are installed-some of the freqs. in use include 155.610 (police), 154.340 (fire), 155.340 (MERCI), and 155.370 "Quad Citites Net"-intersystem.
3. Financial problems continue to plague RICOMM (Rock Island Cooperative Communications Center). Dissolution of the sophisticated system is a remote possibility.

MACKINAW ISLAND, MI FREQS. Larry (MI-001) sends in some freqs. to try while visiting up in this popular resort area.
39.080 BM KOM539 Cheboygan County SD (Mackinaw City)
39.820 BM KQE391 Mackinaw City LG (Mackinaw City)
44.640 BM KQJ235 MI Dept. of Natural Resources (Mackinaw City) also found on 44.800
151.175 BM KVJ723/KFT532 MI Forestry/Conservation (Mackinaw IS)
154.295 BM WZJ664 Mackinaw City FD (Mackinaw City)
155.025 BM WXT764 Mackinaw Is. LG (Mackinaw IS)
453.950 Rptr. KQG876 Mackinaw Bridge Auth. (St. Ignace)

With that contribution from Larry Smith over in MI, this month's column comes to a close. Next month's column will be done "Ken Pehl style"-featuring excerpts from my presentation about the IL Dept. of Law Enforcement- as given at the June 6th RCMA Spring Festival down in the St. Louis area (and repeated at the June 14th Chicago Area Chapter meeting in Berkeley, IL). Until then -

Happy Monitoring!

Thanks, John, for another excellent column. And in next month's column we'll have a feature photo story on the Midwest Spring

Festival. One word of apology: In April, we decided to move the Spring Festival from St. Charles to the St. Louis County Emergency Operations Center. While everyone who wrote for information was provided with updated information, I apologize to anyone who made a last minute decision to make the Festival and found no one in St. Charles to help. Newsletter deadlines prevented a last minute announcement. Thanks for your understanding, and I do hope this didn't cause any unneeded trouble or expense. See you next month!

PUBLIC SAFETY - WEST

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to: George Hoggatt, 17473 E. 16th Drive, Aurora, CO 80011.

If we have another day like today ever again, it will be too soon. For years, the weather people insisted that tornadoes were impossible in Denver as we were too close to the mountains. In the mid-sixties, this theory was dispelled when a twister touched down in the eastern part of the City of Denver. It didn't do a lot of damage, but it was real. In 1975 a big one touched down about 5 miles from where I live now (I didn't then). Again in 1976 a smaller one touched down in the same area (I lived here then and had a litteral back yard view). It was all quiet until last thursday (May 28) when one touched down 8 or 10 miles north of me. This was repeated tuesday 25 or so miles north and yesterday 4 or 5 miles north up to five were reported. Last night, I finished this column (I thought) with a short piece about all the action and how that made the radios jump. Today, all of a sudden the sky turned black and in the space of about one hour nine tornadoes touched down in many parts of the Denver Metro area. The first was on the boundry between the western suburb of Lakewood and Denver. Buildings were damaged and a 300 foot strech of chain link fence, steel guard rail and 6" by 6" posts were torn out in the median of the 6th Avenue freeway. About this time the air raid sirens went off. I grabbed the pocket scanner and went to a north window along with most of the people on the floor. The funnel was very visable. Reports indicated that it was heading for where I live and it seemed to be going that way, so I took off. Fortunatly it turned north and headed away from Aurora. On the way home I was able to see as many as 6 funnels from one main proturberance. The tornado touched down again (or another one touched down) in the northern suburb of Thornton. The damage was extensive and a number of people were injured but it appears that no one was killed.

I don't think that I have heard so much action on the radios in the 25 years I have been monitoring. What we got was minor compared to what Wichita Kansas and many others suffered. I hate to think what kind of confusion would be going on. However the systems did serve their purpose.

For those in the front range area of Colorado, the best frequency to listen to is the amateur repeater on 146.940. The Colorado Severe Weather Net uses this repeater, located on Squaw Mountain west of Denver, 11,500 feet above sea level, to cover the area from Pueblo to Cheyenne, east to Limon and northeast to Fort Morgan. One member goes to the National Weather Service office at Stapleton, where they have the Limon radar and all of the gear available. All tornado, flooding, rain, hail and related reports are filtered through this net and an attempt is made to confirm, via mobile units, all reports of anything that would require a NWS emergency alert, are, if possible, verified by net members before the NWS will issue the alert.

George Wagner (CO-008), a friend of mine, has sent me a copy of the latest FIRECOM Communications Newsletter. I hope Michael Esposito doesn't mind my using one of his ideas here - namely, how static discharge can damage or ruin a radio. I'm sure that all of us have received a shock or two after walking across a rug on a dry day. If this shock happens when you touch your fancy new scanner, the very sensitive integrated circuits (ICs) in your radio may go "sprong". Presto, no radio. For those of you who have computers, the same thing can happen. I learned this the hard way by blowing the CPU of my TRS-80 with one little shock. There are two ways to avoid this. One is to discharge yourself to a good water pipe or ground rod ground before touching any modern electronic equipment. The second is to do as I do and get a can of anti-static spray. I get mine at a local chain drug store. I spray the rug around my desk, the desk and the shelves where the equipment sits. So far there has been no problem.

There are two other ways that your radios can be damaged. During lightening storms I have noticed discharges between the center and shield of the coax antenna leadins. If the antenna had been connected, I'm sure I would have had to shell out for some radio repair. During a bilzzard a gew years ago, I noticed that my shortwave radio was making sounds like a static charge was building up on the antenna. Shortly after, the radio quit. When it was repaired the front end had to be replaced as the static buildup had fried the transistors. The surest way to avoid both of these kinds of damage is to ground the antennas any time a static charge could build up. You can either disconnect the antennas and connect them to a good water pipe or ground rod ground or get a coaxical switch and switch the antennas to a ground (ground both the center and shield). I suppose that one of the static discharge type arrestors would prevent most of the static type of damage, but I would be surprised if they would help in a lightning strike. Grounding the antennas will help about lightning, but I would prefer that it just stay away from me.

MULTNOMAH COUNTY OREGON (PORTLAND)

George DuBois, our FCC TOPICS editor, has a bit of new information on the Multnomah County EMS problems. The county commissioners have hired a consultant to verify or refute the charges of incompetence (See page 63 of the June 1981 issue)

George also sent along two articles from BACKDRAFT a paper put out by Multnomah County District 10.

ALARM CONSOLIDATION

In January 1981, an agreement was reached between Multnomah County Fire District 10 and the Portland Fire Bureau for the consolidation of their alarm dispatch centers.

This county-wide fire and rescue communications system will be located at Portland Fire Bureau Alarm headquarters and is expected to be in operation by October of this year. In the meantime, Fire District 10 dispatchers will be spending some time at the PFB alarm center for familiarization.

The creation of a single fire dispatch cenfer for Multnomah County will eliminate a major problem with respect to the implementation of 911. A 911 operator will not have to make a choice between Portland and District 10 on emergency locations.

During the year 1980, there were more than 26,700 emergency incidents dispatcned by the two alarm centers. In 1982, it is estimated that this figure will be in excess of 30,000.

Savings of 12% to 20% has been projected for the first year of this consolidated operation.

WORKING TOGETHER

Fire District 10 and the Portland Fire Bureau are exploring the feasibility of combining their Engine 28 (55 & Sandy) with our crew at Station 10 (59 & Going). This would enable Portland to close its station while maintaining coverage of the area served. The result would mean a sharing of expenses between departments with two companies housed in one building. As far as we know this engine house sharing by two Fire Departments is a nationwide first!

Stan Hintz (OR-019) sent a map of Multnomah County EMS Districts and a list of unit numbers. Unfortunatly the map has been reduced and I don't think it would be readable by the time it was reduced again for the news letter. However I will print the unit number list.

UNIT	CO.	LOCATION	UNIT	CO.	LOCATION
51	AA	3627 N. Lombard	73	Buck	6013 S.E. 48th
52	Buck	6626 N. Albina	74	Care	2017 S.E. 50th
61	AA	401 N.E. Weilder	75	Buck	1809 S.E. 122nd
62	Care	3135 N.E. Broadway	76	AA	12645 S.E. Division
63	Buck	2213 N.E. 44th	77	Buck	2634 S.E. 174th
64	AA	5109 N.E. Killingsworth	81	Buck	427 N.W. Broadway
65	Care	3435 N.E. 74th	82	Care	2043 N.W. Kerney
66	Buck	9105 N.E. Sandy	83	Care	0109 S.W. Lowell
67	AA	1039 N.E. 102nd	84,86	TVA	3422 S.W. Multnomah
68	Care	601 N.E. 162nd	85	Buck	4926 S.W. 59th
71	Care	4616 S.E. Milwaukee	91	Buck	750 N.E. Burnside (gresham)
72	Buck	1935 S.E. Main			

EL PASO COUNTY COLORADO

Dave Raines (CO-010) called the following errors in the June issue to my attention:

Page 61 Colorado Springs PD Channel 3 is 453.55/458.55
Page 62 Manitou Springs PD Dispatch channel input is 154.650
El Paso County District Attorney is simplex on 155.655. The DA covers both El Paso County and Teller County (Cripple Creek)

County Fire Net input is 153.890

LAS VEGAS NEVADA

Matt Mercer (WA-012) a new resident of Las Vegas has filled in some of the channel useage gaps in the May 1981 list on page 62.

Channel C is for search and rescue as needed
Channel E is used by the SWAT team
Channel G is used by traffic units

Matt also notes that REACT works closely with the Las Vegas Metro PD in handling traffic problems. Monitoring the REACT CB channel my be in order in Las Vegas.

TACOMA WASHINGTON

Matt also sent along a list of unit identifications for his old home town PD (Tacoma)

William 1-6	Safety and Security University of Puget Sound
William 55	South End School Patrol
William 56	North End School Patrol
William 67-68	Point Defiance Park Security
William 47	Tacoma Mall Security
Frank 11	Paddy Wagon
Adam 16	Batallion Chief
Ocean 469	Merchant Patrol
David 64	Vice and narcotics investigator
David 23	Vehicle Theft investigator
Lincoln 85	Supervisor

This list is from memory and Matt has more or less promised a complete list (with frequencies?) when his belongings get to his new home.

ARIZONA

John Torgan (CA-SP-009) now lives in Arizona and when he was in town he called me with the latest in frequencies for Northeast Arizona.

Navajo County Sheriff is 155.070 in/ 155.700 repeater not as shown in Police Call. The cars also work car to car simplex on 155.700
The Local Government channel is 155.145 in/ 154.025 repeater

Show-Low and Winslow use 155.520
Holbrook and Snowflake use 155.790
The County uses 154.755 as a tactical channel. It is refered to as "Chase"

A new member, Mark Rhodes (AZ-028) has sent in a list of the current Arizona DPS frequencies. The frequencies shown are the base frequency, the mobile is always 5 mhz higher. Mark says that the VHF channels were dropped during the week of May 17th. All districts are now UHF. He also sent the list of Maricopa (Phoenix) County Ambulance frequencies.

Mark Rhodes AZ 028

Department of Public Safety Hiway Patrol Division

District:	1	Kingman	460.475
	2	Flagstaff	460.025
	3	Holbrook	460.300
	4	Yuma	460.400

5	Phoenix	460.325
6	Toltec	460.025
7	Globe	460.475
8	Tucson	460.425
9	Sierra Vista	460.325
10	Phoenix	460.300
11	Mesa	460.400
12	Prescott	460.425

State frequency VHF 154.935

State frequency UHF 460.225

DPS Radio Technicians 453.050

I-10 HWY Callboxes 453.025

Maricopa County Ambulance Dispatch Frequencies

47.500	Am Care/ Am Evac/ Phoenix AAA Ambulances	KCR 228
155.160	Kords Ambulance	KCI 746
155.220	Aid Ambulance	WXY 257
155.235	Survival Flight Helicopter	KE 450
155.280	Universal Ambulance	KJD 344
155.325	Air Evac Helicopter	KEC 594
463.400	Associated Ambulances	numerous
800 MHz	Arizona Ambulance & Rescue Service	KP 3147

DENVER COLORADO

Last but not least is my list of Denver Fire Stations and equipment. The equipment is as of May 30, 1981. DFD seems to like to move equipment every month or so, so I do not guarentee that the list will be correct when you read it.

STATION	ADDRESS	EQUIPMENT
1*	745 W. Colfax	Pumper 1, Truck 1, Squirt 1, CD Rig*
2*	none	
3	2500 Washington	pumper 3
4	1890 Lawrence	pumper 4, truck 4, reserve truck 4
5	none	
6	1515 13th St.	pumper 6, squad 1$ hammer 1*
7	2195 W. 38th	pumper 7
8	1616 Park Ave.	pumper 8, snorkle 8
9	4600 Franklin	pumper 9, truck 9
10	3201 Curtis	pumper 10, truck 10
11	40 W. 2nd	pumper 11, truck 11
12	2575 Federal	truck 12, squirt 12
13	3683 S. Yosemite	pumper 13, reserve pumper 13
14	1426 Oneida	pumper 14
15	1080 Clayton	pumper 15, truck 15
16	1601 S. Ogden	pumper 16, snorkle 16
17	4500 Tennyson	pumper 17, reserve pumper 17, truck 17
18	2205 Colorado Blvd.	pumper 18
19	300 S. Ivy	pumper 19, truck 19
20	501 Knox	pumper 20

21	1580 E. Virginia	pumper 21, reserve pumper 21
22	3530 S. Monaco	pumper 22, reserve pumper 22, truck 22
23	850 S. Federal	pumper 23, truck 23
24	2695 S. Colorado Blvd.	pumper 24
25	2504 S. Raleigh	pumper 25, reserve pumper 25
26*	7045 E. 38th	pumper 26, truck 26
27	12927 Albrook Dr.	pumper 27, reserve pumper 27, truck 27
28	4306 S. Wolff	pumper 28, reserve pumper 28, truck 28

Stapleton Airport 1* Red 1, Red 3, Red 8, Red 9, Red 11, portable 1
Stapleton Airport 2* Red 7, Red 10, Red 12, portable 2

Fire Alarm headquarters and dispatch - 9th and Columbine

Other units on DFD:
EOC - Denver Emergency Operations Center in the City and County Bldg.
Denver General Base - paramedic dispatch (155.340)
St. Anthony Hospital Base - helicopter ambulance dispatch
Lifeguard 1 and Lifeguard 2 St. anthony helicopters
A-51-A to A-51-Z Arson investigators. May be on police frequencies as A-51 or X-64
Line Cars - Alarm repair
Bureau Cars - Fire Prevention Bureau

Communications Shop - 1331 19th St.

* CD Rig is the special equipment van including the Underwater Recovery Unit
Squad 1 is a special vehicle with generators, lights and extracation equipment
Hammer 1 is the hazerdous materials van
Headquarters is at 745 W. Colfax. The equipment here has the number 1 and I call it station one. Some consider it to be station 2 as the original station one is now a museum for the DFD (1326 Tremont).
Station 26 handles all non-crash calls at Stapleton Airport. If the call is a fire, the crash equipment may cover in.

The division chiefs (batallion chiefs) are Chief 2-8 and Red Leader at Stapleton
The Fire Chief is Chief one.

PUBLIC SAFETY - CALIFORNIA

Send Public Safety and Special Emergency frequencies, radio system details, and questions for California to: Eric Christensen (CA–LA–045), 3146 W. Ball Road, Apt. 35, Anaheim, CA 92804.

From ERIC (CA-LA-045):

A L L P O I N T S B U L L E T I N ! ! !

A NEW PROGRAMMABLE 16 channel HAND HELD scanner is finally available from BEARCAT!!! It reportedly will have key board entry, scan and search functions and a LCD type display. Band coverage includes:

30 to 50 MHz	Low Band	
138 to 174 MHz	High Band	(note the new lower limit!)
406 to 420 MHz	UHF Band	(new UHF Federal band)
420 to 512 MHz	UHF Band	

The size of this unit is allegedly slightly larger than a "4-6" scanner, in that it will contain 6 "AA" batteries for power.

List price is scheduled to be $449.95

but some stores such as Communications Center of Anaheim will carry it for a special price of $349.95.
Estimated time of arrival is September 1981 or later.

Hi There! Welcome to the August 1981 issue of RCMA Public Safety-California. Can you believe it, August?! (By the way, I'm writing this towards the end of May 1981. What a time lag, 2 months! Hope your summer is treating you just fine.

Remember that Motorola CentraCom Console I told you about at California State University Police, Long Beach? Well, believe it or not, as you will, IT IS STILL NOT READY!!! Oh well, C'est la vie! Qui? Qui!

And now, on to our column.....

From ERIC (CA-LA-045):

POLICE DEPARTMENT-City of Los Angeles
Radio Frequency System

Remote
Out of
Vehicle
Emergency
Radio

The new R.O.V.E.R. Remote Out of Vehicle Emergency Radio is currently in use by the Los Angeles Police Department. Basically the operation of the system is quite basic, an eight channel UHF-T band hand held radio used in conjunction with a vehicular radio adapter, similar to the Motorola ConvertaCom radios. Not all areas are using the UHF-T radio system, and are presently using existing VHF-High band radios. Currently, only those units assigned to "Central Bureau" are participating within the R.O.V.E.R. project. These stations include Central Division, Newton Division, Hollenbeck Division, Rampart Division; with Hollywood Division not appearing on the list as yet. Radio channel assignments are as follows:

ROVER CHANNEL	FREQUENCY	NOTES	STATION LOCATION
1	506.7375	R	Central Division
2	506.9375	R	Newton Street
3	507.1875	R *	Hollenbeck
4	506.5875	R **	Tactical channel (CRASH Units)
5	507.2625		Tactical channel (Simplex or Duplex)
6	506.8125		Not in use
7	507.0375	R ***	Rampart Street
8	507.0875	R	"TRIGGER" (Emergency channel)

NOTES:

R indicates repeater operation on this frequency
* Police Call book shows as Rampart Street
** Police Call book shows as "BLUE" (Rover 4)
*** Police Call book shows as "GOLD" (Rover 7)

From STEPHEN (CA-KE-008): (Letter dated March 19, 1981)

I am writing to pass on an oddity I picked up on my scanner. On cloudy days, such as today, I pick up the LAPD central dispatch KMA367 on the Kern County Desert Net. The Desert Net repeater has an output of 155.910 MHz and an input of 159.150 MHz which is also the frequency of LAPD central. I don't know if the local agencies who are this intersystem net are also bothered by the interference periods, but I haven't heard them talk during these times. Well good luck and happy monitoring.

Editor's note: The Los Angeles Police Department has reportedly discontinued the use of the 159.150 MHz. dispatch channel with call signs of KMA367, due to the implementation of the ROVER system.

From CRAIG (CA-VE-011):

BEVERLY HILLS FIRE DEPARTMENT

460.625 R KUV627 "Beverly Hills"

Station 1 - 445 N. Rexford Drive (Hdqtrs)
Engine 1, Engine 5, Engine 6, Truck 4,
Battalion Chief
Station 2 - 1100 Coldwater Canyon
Engine 2
Station 3 - 180 S. Doheny Drive
Engine 3, Rescue 1, Rescue 2

SANTA MONICA FIRE DEPARTMENT

F1 - 154.07 KMA581 "Santa Monica"
F2 - 154.28 KSO963 "White"

Station 1 - 1444 7th Street (Hdqtrs)
Engine 1, Truck 1, Rescue 1,
Battalion 1
Station 2 - 222 Hollister
Engine 2, Rescue 2, Engine 6
Station 3 - 1302 19th Street
Engine 3, Engine 4
Station 5 - 2801 25th Street (Airport)
Engine 5, Crash 5

CULVER CITY FIRE DEPARTMENT

F1 - 154.415 KYS286 "Culver City"
F2 - 154.28 "White"

Station 1 - 9760 Culver Boulevard (Hdqtrs)
Engine 1, Rescue 1, Battalion Chief,
Reserve Truck 1, Reserve Rescue 1
Station 2 - 4124 McConnell Avenue*
Engine 2, Reserve Engine 2
Station 3 - 11304 Segrell Way
Engine 3, Truck 3, Reserve Engine 3

*Station 2 to be moved to Washington
Blvd near the San Diego Freeway soon.

SAN MARINO FIRE DEPARTMENT

F1 - 154.175 WSX361 "San Marino"
F2 - 154.28 "White"

Station 1 - 2200 Huntington Drive
Engine 24, Engine 25, Rescue 21,
Battalion Chief 27

ALHAMBRA FIRE DEPARTMENT

F-1 - 46.50 KME405
F-2 - 46.20

Station 1 - 301 N. 1st Street
Engine 1, Truck 1, Car 1 (Chief),
Car 2 (Battalion Chief)
Station 2 - 1215 S. 6th
Engine 2, Rescue 2
Station 3 - 2200 W. Main
Engine 3, Rescue 3, Reserve Truck 2
Station 4 - 2505 W. Norwood Place
Engine 4, Reserve Engine 5

SAN GABRIEL FIRE DEPARTMENT

F-1 - 46.50 KMK565
F-2 - 46.20

Station 1 - 115 N. Delmar
Engine 101, Rescue 107, Reserve
Engine 103
Station 2 - 1303 S. Delmar
Engine 102, Rescue 106, Unit 110 (Chief)
Unit 111 (BC), Unit 112 (Arson)

MONTEREY PARK FIRE DEPARTMENT

F-1 - 46,50 KMK857
F-2 - 46.20

Station 1 - 350 Newmark
Engine 251, Truck 260, Medevac 21,
Chief 240, Battalion 241
Station 2 - 2001 S. Garfield
Engine 254
Station 3 - 704 Monterey Park Road
Engine 253, Reserve Engine 253

SOUTH PASADENA FIRE DEPARTMENT (KMF260) F-1 46.50 MHz.
F-2 46.20

Station 1 - 817 Mound
Engine 477, Engine 479, Patrol 480,
Salvage 476, Reserve Engine 478,
Chief 475, Fire Prevention 474,
Rescue 35

From RON (CA-AL-035):

ALAMEDA COUNTY, CALIFORNIA

SHERIFF		
154.65	"Black"	West Dispatch
155.25	"Yellow"	East Dispatch
155.13	"Red"	secondary & car to car
155.07	"Green"	secondary & car to car
154.92	CLEMARS	used by guards at Santa Rita Co. Jail
453.75	"Orange"	intercom between Eden Township Substation, Santa Rita, and transport units.
489.1375		District Attorney's office
155.685		Courthouse
FIRE		
33.92		Fire notification to stations
460.6	"Yellow"	Fire notification & administration
154.07	"Red"	Fireground West
154.235		Fireground East
154.28	"White"	Mutual Aid & car to car
MEDICAL SERVICES		
47.5		Ambulance dispatch
155.4		Primary control & coordination (also amb. to hosp.)
155.16		Hospitals, paging & secondary control
LOCAL GOVERNMENT		
44.92		Flood Control
45.36		Public Works, Building Inspectors
45.72		Road Maintenance
153.41		Water District
155.955		Coroner, Animal Control

From ERIC (CA-LA-045):

POLICE DEPARTMENT-City of Fullerton "STATION 24"
Unit Numbering System

Radio Frequency Assignment

460.100	R		"GREEN"	Dispatch
460.150	S	*	"WHITE"	Car to Car
460.400	R	*	"ORANGE NORTH"	Mutual Aid
460.500	R	*	"BLUE"	Task Force
460.300	R	*	"PURPLE"	Computer Info
460.025	R	*	"RED"	EMERGENCY

NOTE: * indicates a County operated/coordinated frequency. (Shared with all other law enforcement agencies in Orange County radio system).

Unit Numbering System

Patrol Area Divisions

ZONE 1 - WEST	Euclid Street west to city limits	Units 1 thru 5
ZONE 2 - CENTRAL	Euclid Street east to Raymond Ave	Units 6 thru 10
ZONE 3 - EAST	Raymond Avenue east to city limits	Units 11 thru 16

Units 17, 18 and 19 are Training Officers (NPO)
Units 31, 32 are Crime Scene Investigations (CSI)
Units 51, 52 and 53 are Field Sergeants
Unit ØØ is the Watch Commander

Units 401 thru 416	Traffic (Motorcycles)
Units 420 thru 429	Parking Enforcement
Units 430 thru 439	Accident Investigation (A.I.)
Units 450 and 453	East and West area Motorcycle Traffic Sergeants
Units 540 thru 549	Narcotics
Unit 700	Captain (Uniformed)

The City of Fullerton Fire Department operates on 46.32 MHz and identifies as Station # 64, and is part of "NET 3" of the Orange County system including Buena Park & Brea FD

NEXT MONTH!! NEXT MONTH!! NEXT MONTH!! NEXT MONTH!!

California Department of Forestry (CDF) radio system STATEWIDE. Will include all six regions and show local and region net frequencies, plus air net frequencies!

"Touring California - with your scanner, of course!" by ERIC (CA-LA-045)
During June 1981, I will be taking my vacation (yes, even police dispatchers get an occasional break in the action!) and will be driving N/B US 395 towards Mono Lake/Mamouth area, then W/B SR-120 through Yosemite park. Then it's N/B SR-49 through old gold country, then east on US-50 into Lake Tahoe. After fun there, I'll go down into the Capitol of the State of California, Sacramento via IS-80, and continuing on down into San Francisco. After all this, I'm just going to enjoy the coast as I drive S/B on the coast highway back towards Southern California. When I finish, I'll do an article listing all of the frequencies that I listened to and found to be of interest.

IN SEPTEMBER: Look forward to seeing an excellent contribution by CRAIG (CA-VE-011) on fire departments in Santa Barbara County, listing station locations and the equipment found at each fire station.

IN OCTOBER: Who knows yet?! KEEP ON SENDING IN GOOD INFORMATION & WE'LL HAVE THE BEST SECTION IN R.C.M.A. ALWAYS!!! BYE-73's ERIC (CA-LA-045)

CALL SIGN	TRANSMITTER CITY
KSK440	Santa Barbara
KSQ432	San Rafael
KSQ798	San Francisco
KSQ945	Crescent City
KSU532	Colton
KSU646	Napa
KTA894	Granada Hills
KTA895	Hollywood
KTA896	Los Angeles
KTA897	Los Angeles
KTA898	Los Angeles
KTA899	Los Angeles
KTA900	Los Angeles
KTA901	Los Angeles
KTA902	Los Angeles
KTA903	Los Angeles
KTA904	Los Angeles
KTA905	Los Angeles
KTA906	Los Angeles
KTA907	Los Angeles
KTA908	North Hollywood
KTA909	Pacoima
KTA910	Reseda
KTA911	San Pedro
KTA912	Van Nuys
KTA913	Venice
KTA914	West Los Angeles
KTE644	San Leandro
KTG518	Davis
KTG607	Corona
KTG608	Coronodo
KTG619	Fresno
KTI706	Morro Bay
KTI728	San Luis Obispo
KTI815	Albany
KTI816	El Centro
KTO426	La Verne
KTR603	Sebastopol
KTS629	Palo Alto
KTT986	Redwood City
KTV807	San Jose
KTV808	Benicia
KTZ450	Lakeport
KTZ451	Clearlake Highland
KUB766	Univ. of Calif. L.A.
KUB792	San Francisco
KUB793	Santa Barbara
KUB815	Chula Vista
KUB816	National City
KUN501	Fortuna
KUN502	Foster
KUN503	Santa Cruz
KUN548	La Mesa

CALL SIGN	TRANSMITTER CITY
KUQ716	San Pedro
KUS510	San Diego
KUT524	Auburn
KUU357	Redding
KUU358	Rio Dell
KUU447	Palm Springs
KUU543	Rohnert Park
KUV661	Monterey Park
KVG728	Claremont
KVI693	Ukiah
KVG728	Fort Bragg
KVG729	Ukiah
KVJ730	Napa
KVJ872	Lakeport
KVJ873	Oakland
KVN539	Santa Barbara
KVN594	Santa Maria
KVP810	Bishop
KVP811	Independence
KVP812	Monterey
KVP813	Parlier
KVP814	Rialto
KVV803	Milpitas
KWF708	Hermosa Beach
KWF709	Irwindale
KWF710	Los Angeles
KWF711	Redondo Beach
KWF810	Fort Bragg
KWJ262	Sonoma
KWT766	Bridgeport
KWT767	Mammoth Lakes
KXA259	South Gate
KXA296	San Gabriel
KXA297	Santa Ana
KXB703	Needles
KXC972	El Centro
KXM688	Vallejo
KXM689	Watsonville
KXO964	El Centro
KXO965	Winterhaven
KXU224	Fremont
KXU372	Santa Rosa
KXV638	Saint Helena
KXZ720	Hayward
KXZ751	Gardena
KYI953	Clovis
KYI954	Fontana
KYI977	Placerville
KYO359	Placerville
KYU559	Palos Verdes
KYU717	Monrovia
KYU766	Tulare
KYU877	Arcadia

CALL SIGN	TRANSMITTER CITY
KAQ878	Merced
KAQ882	Capitola
KAQ918	Yuba City
KAQ932	Marysville
KA4993	Larkspur
KBJ930	San Jose
KBV889	Orange
KBV892	Santa Rosa
KCA407	Fremont
KCE613	Dixon
KCR339	Chico
KDU880	Union City
KEC722	San Bernardino
KEG371	Wheatland
KEG391	Davis
KFE297	Bakersfield
KFF396	Scotts Valley
KF2353	-
KIG546	Santa Cruz
KIS716	San Diego
KJF891	-
KJJ365	Colusa
KJN682	Sacramento
KJN840	Los Angeles
KJS750	Montebello
KJS942	Martinez
KJS953	Barstow
KJS954	San Bernardino
KJT553	Fullerton
KJZ970	Hoopa
KJZ971	Garberville
KJZ972	Eureka
KJZ973	Palo Alto
KJZ974	Woodland
KKD772	Colusa
KKG684	San Francisco
KKG685	Sacramento
KKG689	Vallejo
KKK255	Simi Valley
KKR344	Bakersfield
KKR346	San Bernardino
KKR347	San Diego
KK3942	-
KLI324	Los Angeles
KLI325	Culver City
KLK464	Chino
KLO454	Torrance
KLO477	Fairfield
KLO478	West Covina
KLS546	Imperial Beach
KLU239	Vacaville
KLU341	Concord
KLU341	Montclair
KLW287	Whittier
KLW288	Pomona
KLX948	Oroville
KLY983	Merced
KMA314	Big Bear
KMD602	Los Angeles
KMJ866	El Cajon
KMK974	Chowchilla
KMK975	Gustine
KMK977	Los Altos
KMK980	Red Bluff
KOB438	Taft
KOE327	Gilroy
KOE328	Willits
KOM856	Vernon
KOM859	Turlock
KOM862	Selma
KOM863	Ridgecrest
KOM864	Redlands
KOM865	Holtville
KO5772	-
KQM693	Burbank
KQP502	Berkeley
KQR620	Walnut Creek
KQW344	Glendora
KQY295	Huntington Park
KRA565	Pinole
KRE326	Livermore
KRE468	Ontario
KRF478	Santa Cruz
KRJ918	San Bernardino
KRO411	Richmond
KRO422	Redlands
KRS232	Baldwin Park
KRT726	El Monte
KRT817	Pleasant Hill
KRW206	Azuza
KRW207	San Leandro
KRX568	Martinez
KRX570	Alameda
KRX571	Berkeley
KRX572	Petaluma
KRZ240	Pittsburg
KRZ243	Antioch
KRZ904	Santa Cruz
KSI558	Chino
KSI560	Redding
KSI561	Rohnert Park
KSI563	Healdsburg
KSK436	Escondido
KSK437	Glendale
KSK438	Indio
KSK439	Santa Barbara

CALL SIGN	TRANSMITTER CITY	CALL SIGN	TRANSMITTER CITY
KZC661	San Jose	WXF972	San Diego
KZF908	Calistoga	WXJ384	Weaverville
KZH969	Arvin	WXP631	Chino
KZK297	Fowler	WXP632	Pomona
KZK298	Fontana	WXT583	San Diego
KZK299	Ontario	WYK436	Hayward
KZK300	Victorville	WYK438	Sacramento
KZ0435	Adelanto	WYK439	San Francisco
KZ0437	Port Hueneme	WYR769	Corte Madera
KZ0440	Simi Valley	WYR781	Hercules
KZ0441	Ventura	WYU980	San Diego
KZQ782	Woodland	WYU981	Orange
KZR410	Camarillo	WYU983	Rancho Cucamunga
KZV308	Oxnard	WYU984	Tracy
KZX246	Kingsburg	WYU985	Kneeland
WRA554	San Luis Obispo	WYY803	Madera
WRL476	Calexico	WYZ323	Calipateria
WRL652	Dominguez Hills	WZU247	Chula Vista
WSL759	Rio Vista	WZU248	Poway
WXB729	Fresno	WZU249	Fallbrook
WXB736	Orange	WZU250	Encintas
WXB737	Calif. St. U. Long Beach	WZU251	Vista
WXB738	Los Angeles	WZU387	Oakland
WXB740	San Jose	WZX378	Roseville
WXF971	Piedmont		

FCC TOPICS

George DuBois, Editor

Send FCC news and information of interest relating to two—way communications above 30 MHz, as well as questions regarding the FCC Rules and Regulations, to: George DuBois, 10048 NE Campaign, Portland, OR 97220.

Part 90 was amended to allow the use of bio-medical telemetry outside of urban areas on certain VHF frequencies. This will allow the transmission of EKGs and other diagnostic measurements in areas at least 50 miles outside of urbanized areas of 600,000 or more, rural areas where the use of the 463 mHz "Med" channels is not practical or desirable. Authorized is the use of the five Special Emergency Radio Service channels that are presently available for medical services exclusivly, 155.325, 155.34, 155.355, 155.385 and 155.40 mHz. The original proposal suggested a five minute limit on continuous transmission and asked for comment on whether to require interrupt capability, where the hospital could interrupt a mobile units telemetry transmission in progress. Commenters stated that some systems would require as little as 15 seconds to transmit their data, so the Commission has adopted a two minute time limit and for that reason saw no need to require interrupt capability, which would only increase equipment cost. Each transmission (regardless of length, I guess, the way it is written) must be followed by a one minute silent period.

The Commission has proposed amending its rules to allow "talk-around", or simplex, use of conventional channels in the 806-866 mHz band. This is presently permitted in repeater systems in other bands, allowing mobiles to communicate directly on the repeater output frequency (without using the repeater), but is only allowed in the 851 band where a user is assigned exclusive use of his channel (which would have to be a large system). Supposedly this is to limit interference to other base stations on the same frequency. The Special Industrial Radio Service Association argues that this use will be unlikely to interfere with higher-power, base-station transmissions, that it will ease congestion on repeaters and that it will allow use by mobile units at fringe areas of repeater coverage or in hilly terrain.

Part 87 (Aviation) was amended to state that an aircraft station license may not be transferred or assigned and a new license must be applied for when there is a change of ownership. This is the case in most services but, through omission, has never been stated as such in Part 87. You'll also have to remember to forward your license for cancellation, next time you sell your airplane.

The FCC has proposed allowing the sharing of certain low-band channels presently allocated to the Power and Petroleum Radio Services with the Forest Products Radio Service to releive congestion in that service. This is in response to a petition by Forest Industries Telecommunications (FIT) which asked for shared use in the Northwest and Southeast of thirty-two 42 and 45 mHz channels presently allocated to the Police Radio Service. Well, you can imagine that this went over like a fart in church. The Commission has always recognized the "need to restrict availability of these frequencies to Police Radio Service eligibles to assure uniformity in 'operational discipline' among users who recognize the same priorities in the use of the channels". A proposal just released (June column) would allow interservice sharing among all private services and it, too, differentiates between frequencies available to Public Safety and to industrial users. As an alternative, the Commission proposes shared use of thirty-six 25-48 mHz Power and Petroleum Radio Service channels in the NW and SE.US.

The Table of Frequency Allocations in Part 2 was amended to delete the provision for Government assignments in the 890-902 and 928-942 mHz bands for the Armys doppler velocity attitude projectile system, since the Army no longer uses the system. The only Government operations outside of the present 902-928 mHz government band will continue to be only those authorized before 1970, experimental stations and fixed service in Alaska.

The FCC has amended the amendment that allowed 'system' licensing in the Genreal Mobile Radio Servie (CB). This allowed bases and control stations to be licensed under one authorization, but, through oversight, only allowed control stations included if they were under five watts. What they meant was that they could be licensed under a system license unless they were within 50 miles of the Canadian border with a power in excess of five watts.

The Commission has lifted the freeze on applications for the paging channels 43.22 and 43.58 mHz. The freeze was imposed as a result of concern for TV interference. In areas near the paging transmitter, 43 mHz signals will be passed by a televisions IF stages, causing TVI on all channels. In lifting the freeze the Commission will continue the policy of granting new licenses on a developmental basis only, for one year, allowing them to order a transmitter off the air if signifigant TVI problems result. Applicants will be made aware of the risks involved, including requiring the installation of filters on affected receivers, reducing their power output or altering their antenna locations. Licensees must also survey at least 25 TV viewers within two miles of their transmitter every three months. One of the first applicants since the freeze is a company in Tacoma, Wa. that proposes a wide-area service (all the way to the Canadian border) and seeks some flexibility in the developmental period due to their considerable investment.

There were two amendments to Part 95, the Amateur Radio Service. One allows the use of up to 1000 watts ERP in the 435-438 mHz band by stations in the area of six designated military bases. Presently only 50 watts output is allowed in these six areas, unless waived, to

protect Government radiolocation use. This amendment will permit these hams to use the power required to access the new AMSAT phase III-A satellites.

Another amendment extends the "quiet zone" around the National Radio Astronomy Observatory in Green Bank, WV and the Naval Research Laboratory in Sugar Grove, WV to include repeater stations in the Amateur Radio Service and base and control stations in the General Mobile Radio Service. The Director of the Observatory must be notified simultaneously with the FCC application for any new station or modification of an existing station, or amateur repeater, in the affected area. It was decided to include these two services in the "quiet zone" since interference from them has occured and a high priority must be given to the protection of the scientific and national defense endeavors carried on at the observatories.

Cellular mobile telephone service may soon become a reality with the amendment of Part 22 to allocate spectrum and adopt technical standards. It was decided to allocate two 20 mHz segments, one for wireline common carriers (phone companies) and one for Radio common carriers. This will eliminate many cases where WCCs and RCCs both apply for authorization for the same frequencies, resulting in lenghty hearings. Telephone companies will thus be allowed to begin immediate service using their vast resources and expertise, while competition by RCCs will be assured, since they have their own channels. After five years, either entity can apply for either group of channels. There was concern ITT companies would gain monopoly situations in most markets, otherwise.
Cellular System A is available to RCCs and consists of 330 paired channels with 30 kHz spacing, 825.03 through 834.99 mHz for mobiles and 870.03 through 879.99 mHz for base stations. Telephone company systems are from 835.02 through 844.98 for mobiles and from 880.02 through 889.98 mHz for base stations. Control channels, for control purposes and to determine when a mobile is to be transferred to another cell, are in the upper and lower segment of each band, for RCCs, 834.39 - 834.99 for mobiles and 879.39-879.99 for bases and, for WCCs 835.02 through 835.62 paired with 880.02-880.62 for bases. In a cellular system, each channel serves a single, relatively small area, or 'cell', and is capable of being used again in another cell. The channels are carefully coordinated to maximize reuse without mutual interference. Over 300 channel pairs may sound like a lot of channels, but dont forget that one cell will be surrounded by another three or four cells. The same channel might not be used again for maybe two adjacent cells, to provide separation. In a dense urban area, multiply all that by the ten or twelve channels needed in each cell (to serve a number of mobiles in each area) and you get an idea of the number of frequencies needed and the complexity of a system. Maximum power allowed for base stations is 100 watts ERP and 7 watts for mobiles. Complex technical standards were adopted to insure compatibility nationwide.

A Final Order was released allowing the use of digital modulation by licensees in the Power Radio Service. Previously, digital modulation was only allowed in the Police and Fire Radio Services. This was in response to a petition by the Utilities Telecommunications Council in which concern was expressed about attempts to intercept communications of utilities in general, and nuclear power facilities in particular. In comments on the petition, Motorola urged its adoption and the expansion to all services. (Why not?) The American Petroleum Institute (API) suggested allowing the use of digital modulation in the Petroleum Radio Service also, but only for communications related to the protection of corporate personnel and property. Use of digital modulation in the Power Radio Service must be specifically authorized in the station license.

On the same day the above Order was issued the Commission also released a proposal to allow digital modulation in all the private land mobile services, or at least the services that have a high degree of coordination between users on the same channel, since there is concern for interference to other licensees sharing a channel. Motorola, the only manufacturer of digital voice equipment type accepted for use, and APCO, both state that they have no reports of interference from existing systems. The Manufacturers Radio Frequency Advisory

Committee and API (above) both urged the adoption only for communications for the protection of personnel or property. The Commission pointed out that they wouldn't be able to enforce any such limitation since, if digital voice is scrambled, they wouldn't be able to unscramble it! So the proposal would only allow digital voice (F3Y) and digital data (F9Y) on a secondary, non-interference basis and all use would have to be coordinated with other licensees on a channel. In the 851-866mHz band, use would only be allowed on channels assigned exclusively to a licensee. In all bands, use would have to be specifically approved by the Commission.

Relative to the above, Commissioner Joseph Fogarty released a separate statement regarding "communications security" in general. This provides a little insight into his thinking. If any of you have any comment, stuff it into an envelope and send it to me and I'll print it.

Statement of Commissioner Joseph R. Fogarty

In Re: Amendment of Part 90 of the Commission's Rules and Regulations to Allow the Use of Digital Voice Modulation in the Power Radio Service.

The time has come for the Commission to develop an overall policy on the question of the privacy and security of the telecommunications network. During the last two decades the potential for invasion of the privacy of communication and the violation of the integrity of the communications network has increased alarmingly. This situation developed with the prodigious expansion of communication services and the rapid growth of communication technologies. New technologies have increased the sophistication and capabilities of virtually all forms of communications. Unfortunately, these new technologies have also contributed to the development of refined tools suitable to be used for unauthorized interception and tampering with modern communication services. More sensitive and less expensive monitoring devices, interception systems and computerized processing hardware and software have created a potential for unauthorized surveillance, interception, tampering and use heretofore unknown. The growing network of computer terminals and communication links now provides many access points as well as the necessary equipment for those bent on unauthorized interception and use of information. The intensified employment of terrestrial microwave and satellite facilities has resulted in a growing problem involving the theft of material contained in MDS, STV and satellite transmissions. Cable, while not easily penetrated, is not impregnable. In addition, increasing reliance on electronic communication is enhancing incentives towards these illicit activities.

Such developments raise a myriad of serious issues concerning the privacy and security of the telecommunications network which the Commission is obligated to confront. It is clear from provisions of the Communications Act, the United States Criminal Code, and our prior decisions that the privacy of communications must be protected and that any potential threat to privacy is a cause for grave concern on our part. *See U.S.* v. *Sudgen*, 226 F.2d 281 (9th Cir. 1956); *KMLA Broadcasting Corp.* v. *Twentieth Century Cigarette Vendors Corp.*, 264 F. Supp. 35 (D.C. Cal. 1967); *Jochnowitz* v. *N.Y. Telephone Co.*, 32 FCC 2d 858, 84 (1972). As we have stated previously, we do not believe it to be consistent with the public interest to permit any "new product of man's ingenuity to destroy our traditional right to privacy." *Amendment of Parts 2 and 15*, 2 FCC 2d 641, 644 (1966). Unfortunately, aside from issuing staff papers and holding seminars, the Commission has never developed an overall policy designed to ensure that the privacy and security of the network is maintained.

The privacy and security question affects all of the areas that the Commission regulates—Broadcast, Common Carrier, Private Radio and Cable. The Commission is literally sitting on a "time bomb." We have already had complaints from MDS and STV operators concerning theft of service and the illegal manufacture and sale of equipment to abet such thievery. This problem has apparently reached epidemic proportions in Los Angeles. Moreover, there are currently in progress throughout the country a number of lawsuits concerning theft of STV service.[1] In the future, we are bound to face theft of service complaints in the DBS and cellular areas. The problem is not merely domestic in scope. Internationally, the privacy problem has created important questions concerning transborder data flows which threaten to inhibit the free flow of information worldwide.

The law is unclear with conflicting cases even within adjoining districts.[2] Section 605 of the Communications Act is antiquated while Chapter 119 of the Omnibus Crime Control and Safe Streets Act of 1968, with its emphasis on oral communications, is not readily adaptable to new technology.

Now is the time for the Commission to bring order to this chaos. I recommend that the Commission form a task force, including representatives from other interested agencies and departments of the government, to study the problem of maintaining the privacy and security of the telecommunications network in the face of the threat presented by new technologies. The task force after study, would report to the Commission on policies and rules that the FCC might adopt in this area and on any amendments to the Communications Act and the Omnibus Act that the Commission might recommend to Congress. Prompt action is imperative. I urge that the Commission move very quickly toward the formation of this task force to protect the national interest.

[FR Doc. 81-15153 Filed 5-20-81; 8:45 am]

BILLING CODE 6712-01-M

[1] It is my firm belief that the Commission should intervene in each of these cases.

[2] *See Home Box Office* v. *Pay TV of Greater New York, Inc.*, 467 F. Supp. 525 (E.D.N.Y. 1979); *contra, Orth-O-Vision Inc.* v. *Home Box Office*, 474 F. Suppl. 672 (S.D.N.Y. 1979).

under 30 MHz

Chris Devendorf, Editor

Shortwave Utility

Chris Devendorf, Editor

This column is for reporting RTTY, CW, MCW, SSB, AM and FAX reception reports, explanatory notes, articles, and questions related to frequencies below 30 MHz. Services covered in this column will be military, civilian aeronautical, coastal/maritime, SSB broadcast feeders, government, beacons, weather, voice markers, time/frequency stations, etc.——essentially everything except broadcast, CB, and amateur radio. Send to: Chris Devendorf, P.O. Box 6002, Laguna Niguel, CA 92677. If you need a Shortwave Utility report form, please inclose a SASE with your request.

INTERCEPTS

Contributor		Receiver	RTTY Unit
Bill Blomgren	IL-20	SSR-1	Info Tech 75
David Beck	AL-1	R-1000	
Chris Devendorf	CA-OR-50	DR-33 R-1000	Info Tech M-200E
Len Stock	CO-25	FRG-7000 ICF-2001	
Bob Rankin	KS-1	R-7	
Al Ricciuto	NY-150	DR-22	

Voice

2453	USB	5-15	1817	ICEPACK wkg FAIRMONT (USN)	CD
3211	USB	5-17	1857	D4H clg N1E (USMC)	CD
3046	USB	4-13	0430	ANDREWS, MD wkg SAM 86971	BB
4250	USB	5-15	1831	F3Q clg SØK	CD
4610	USB	3-27	1500	ILLINOIS NATIONAL GUARD Statewide Primary Net	BB
4840	USB	4-24	0313	M8Q39 wkg K2E w/ traffic	LS
5624	A3H	5-21	0129	GANDER, Nfld wkg BELGIUM AIR FORCE 99	AR
5638	A3H	5-21	0407	SHANWICK, Ireland wkg GERMAN AIR FORCE 1ØØ3	AR
5696	USB	4-27	0508	CG RADIO NEW ORLEANS wkg CG1488	BR
5692	USB	4-27	0530	LOS ANGELES AIR clg CG1368	BR
6540	A3H	5-13	0300	NEW YORK, NY wkg LAC 234 (Aereas Caribe)	AR
6683	USB	4-13	0505	ANDREWS, MD wkg SAM 86971	BB
6736	USB	5-13	1352	AGILE 62 clg HOMESPUN CONTROL & BRIGHT CONTROL	LS
6756	USB	2-17	0100	ANDREWS, MD wkg PAC COMM Ø1	BB
	USB	2-17	0130	ANDREWS, MD wkg SPAR 76	BB
	LSB	2-23	0015	ANDREWS, MD wkg SAM 26ØØØ and AIR FORCE 1	BB
	USB	3-27	0130	ANDREWS, MD wkg SAM 86971	BB
	USB	3-27	0200	ANDREWS, MD wkg SAM 31682	BB
6991	LSB	5-5	1334	BROADWAY CONSUMER 57B wkg 58M	LS
7447	USB	5-5	0013	AAA77 wkg AAA11 w/ traffic (Army??)	LS
7527	USB	5-7	0205	AIR and AIR MOBILE at EC-135 crash site in MD.	BR
	USB	5-11	0115	JACKPOT clg OMAHA 25	BR
8020	LSB	5-27	0757	KILO 5 clg GOLF 6 SIERRA	CD
8040	USB	3-27	1500	ILLINOIS NATIONAL GUARD Statewide Primary Net	BB
8826	A3H	4-23	0018	LUANDA, Angola wkg SPRINGBOK 249	AR
8959	A3H	4-23	0046	TIPOLI, Lybia wkg KENYA 415	AR
8826	A3H	5-19	0326	LUANDA, Angola wkg AEROFLOT 437	AR
	A3H	5-21	0110	NIAMEY wkg AIR ALGERIA 5233	AR
	A3H	5-21	0114	NIAMEY wkg AIR GABON CARGO 8Ø4	AR
8910	A3H	5-3	0301	REKYJAVIK, Iceland wkg SCANDENAVIAN 982	AR
8826	A3H	5-16	0442	NIAMEY, Niger wkg ANGOLA 65Ø	AR
8914	USB	5-7	0504	SO AFRICAN AIRWAYS, Johannesburg wkg SPRINGBOK 271	AR
8917	USB	4-24	1512	GLOBE CONTROL wkg GLOBE Ø1 with radio check	LS
	USB	5-22	1911	BOEING SEATTLE, WA wkg BOEING Ø22 w/ radio check	LS
8945	A3H	4-24	0131	NEW YORK, NY wkg FRENCH MILITARY 78Ø2	AR
	A3H	4-28	1615	NEW YORK, NY wkg ASCOT 5593 (RAF)	AR
8959	A3H	5-17	0032	TRIPOLI, Lybia wkg LUFTANSA 535	AR
8967	LSB	2-17	0130	ANDREWS, MD wkg SAM 86971	BB

8984	USB	5-28	0300	COAST GUARD 5785 wkg MIAMI AIR switching to CB CH-11	BR
9007	LSB	2-17	0110	ANDREWS, MD wkg SAM 86971	BB
	LSB	4-13	0450	ANDREWS, MD wkg SAM 86971	BB
9018	USB	3-10	1510	ANDREWS, MD wkg LIST or LIFT 88	BB
9023	USB	3-30		ANDREWS, MD wkg SAM 31681 via SCOTT AFB	BB
10049	A3H	4-24	0107	RECIFE, Brazil wkg ROYAL AIR MAROC 242	AR
	A3H	5-12	0516	DAKAR, Senegal wkg SPANTAX 989	AR
10093	SSB	5-5	0206	LTU1533 clg LTU DUSSELDORF (????)	LS
11233	USB	5-27	1525	AIREVAC 4396 wkg TRENTON MILITARY p/p to OTTAWA	BR
	USB	5-27	1532	TRENTON MILITARY wkg AIREVAC 4396 and a/c 5644	BR
11243	USB	5-27	1559	FATTY CONTROL w/ wx report for FATTY 51 (SAC)	BR
11249	USB	2-22	2140	ANDREWS, MD wkg ACTIVE	BB
11255	USB	5-27	0813	F2Y clg TØF (USN)	CD
11367	A3H	5-16	1935	NEW YORK, NY wkg JET STAR 5ØØ SUGAR	AR
	A3H	5-18	1542	NEW YORK, NY wkg INTERCONTINENTAL Ø38	AR
12345	USB	5-7	0451	QUEEN ELIZABETH II p/p thru WOM Ft Lauderdale, FL	DB
13215	LSB	2-22	2230	ANDREWS, MD wkg SAM 26ØØØ	BB
	LSB	4-13	0455	ANDREWS, MD wkg SAM 86971	BB
13247	USB	2-22	2150	ANDREWS, MD wkg LW221	BB
	USB	3-10	1510	ANDREWS, MD wkg LIST or LIFT 88	BB
	USB	3-30	2314	ANDREWS, MD wkg SAM 86972	BB
13296	A3H	5-2	0107	FRANKFURT, Germnay wkg LUFTANSA 695 (LDOC)	AR
13703	USB	4-7	0318	AHF1B wkg AHF 3	DB
14728	USB	5-17	0200	"GALEI ZAHAL" Israeli Defense Forces bcst feeder	BR
16433	LSB	5-20	0630	"RADIO KIRIBATI" Tarawa feeder to Christmas Is	BR
18025	USB	3-10	1520	ANDREWS, MD wkg COWPUNCHER	BB
	USB	4-13	0436	ANDREWS, MD wkg SAM 86971	BB
18027	LSB	3-30	2100	ANDREWS, MD wkg AIR FORCE 2 returning from Texas	BB
	LSB	5-26	1843	AIR FORCE 1 wkg ANDREWS returning from Calif	CD
18666	USB	5-8	1520	ATLAS wkg FLINTs 255, 360, 460, 258 p/p from HQ	BR
	USB	5-8	1540	HOMEPLATE clg CONDOR. also wkg FLINT 255	BR
	USB	5-8	1545	FLINT 46Ø wkg ATLAS	BR
	USB	5-23	1730	EXPRESS ADULT wkg EPIC	BR
19303	USB	5-21	2046	CAPE RADIO, FL wkg ARIA 1 w/ equip check	LS
	USB	5-21	2055	SILVER 19 (Cape Canaveral) wkg ARIA 2 w/ equip check	LS
	USB	5-22	0042	ARIA CONTROL (4950 TW) wkg ARIA 1 and 2 w/ wx rpt	LS
20349	LSB	5-13	0010	TORREADOR (USN-Stockton) wkg KILGORE w/ traffic	LS
25578	LSB	2-22	1900	ANDREWS, MD wkg SAM 26ØØØ	BB
29899	LSB	4-13	0350	ANDREWS, MD wkg SAM 86971	BB

Morse

284	MCW	4-25	0426	"LWC" beacon: Lawrence, KS	LS
	MCW	5-15	1416	"MDF" beacon: Mooreland, OK	LS
347	MCW	4-25	0453	"SBX" beacon: Shelby, MT	LS
362	MCW	4-25	0224	"BNH" beacon: Brenham, TX	LS
2173.5	CW	5-16	0127	"M2" beacon: Los Angeles Harbor Calibration Rbn	CD
10415	CW	5-28	0816	JJD/JJD2 (Japan?) with GEOALERT and 5 digit groups	CD
14770	CW	5-7	0420	1 second pulses, sounds like time signals	DB
16741	CW	5-7	0439	LAXP calling LFX	DB
16852	CW	5-7	0433	DAHL, unknown station	DB

RTTY

4513a	100/170	3-31	0240	Unknown USN station	BB
7510	66/850	5-26	0855	JAF27 Unk station in Japan, RY test	CD
10795	66/425	5-26	0820	JAG5Ø KYODO TOKYO, Japan, RY test	CD

SATELLITES

EDITOR WANTED!

We need a new Satellites column editor effective immediately. The editor of this column should be familiar with satellite systems and communications and should be an active satellite monitor. The editor also should have a knowledge of the history of older satellite systems and be familiar with upcoming new systems. This editor would be required to generate most of the copy for this column. If you are interested, please TYPE a letter telling about yourself and qualifications to RCMA Managing Editor, P.O. Box 341, Ringoes, NJ 08551.

Appendix A

OPERATING PARAMETERS FOR INTELSAT V

NATURE OF SERVICE	: International Fixed Satellite Service and International Maritime Mobile Satellite Service for F-5 and beyond
CLASS OF STATION	: International Fixed Satellite Space Station and International Maritime Mobile Satellite Space Station for F-5 and beyond
SPACECRAFT IDENTIFICATION	: INTELSAT V
ORBIT	: Geostationary
FREQUENCY PLAN	: See page 4
TELEMETRY/BEACON	: Two within 3947-3953 MHz Band One within 11196-11200 MHz Band One within 11450-11454 MHz Band
COMMAND	: Within 6170-6180 MHz Band
FREQUENCY STABILITY	: ± 0.001% (6-4 GHz Translation) ± 0.0004% (6-11 GHz Translation) ± 0.0002% (14-4 GHz Translation) ± 0.0007% (14-11 GHz Translation) ± 0.001% (6-1.5 GHz Translation) ± 0.001% (1.6-4 GHz Translation)
STABILIZATION	: Three-axis
EQUIVALENT ISOTROPICALLY RADIATED POWER (E.I.R.P.)	: Maximum: 29.0 dBW @ 4 GHz (nominal) Maximum: 44.4 dBW @ 11 GHz (nominal) Maximum: 32.6 dBW @ 1.5 GHz (nominal)
MAXIMUM FLUX DENSITY AT EARTH'S SURFACE	: - At 4 GHz, -152 dBW/m² in any 4 KHz band for angles of arrival between 0 and 5 degrees above the horizontal plane; -152 dBW/m² + (0 - 5)/2 dBW/m² in any 4 KHz band for angles of arrival 0 between 5 and 25 degrees above the horizontal plane; -142 dBW/m² in any 4 KHz band for angles of arrival between 25 and 90 degrees above the horizontal plane. - At 11 GHz, -150 dBW/m² in any 4 KHz band for angles of arrival between 0 and 5 degrees above the horizontal plane; -150 dBW/m² + (0 - 5)/2 dBW/m² in any 4 KHz band for angles of arrival 0 between 5 and 25 degrees above the horizontal plane; -140 dBW/m² in any 4 KHz band for angles of arrival between 25 and 90 degrees above the horizontal plane. These limits are those which would be obtained - At 1.5 GHz, no limits required
STATIONKEEPING FUNCTIONS	: Orbital inclination: ± 0.10° Longitudinal drift: ± 0.10°
POINTING CONTROL	: Antenna axis direction: ± 0.25°
ANTENNAS	: 4/6 GHz zone and hemispheric coverage: - Two offset-fed parabolic reflector (one transmit, one receive) fed by Planar array consisting of elemental feeds arranged in a cluster to create required patterns. 4/6 GHz global coverage (22°): - Two conical horns (one transmit, one receive). : 11/14 GHz spot coverage: Two offset-fed, fixed feed parabolic reflectors (one transmit/receive east, one west) with beam steering accomplished by two-axis gimballing of reflectors (west spot circular, east spot elliptical). L-band Maritime Mobile coverage: One global coverage antenna for transmit and receive consisting of a four-element helical phased array.

82 F.C.C. 2d

	RECEIVE		TRANSMIT	
TRANSMISSION CHANNEL	BAND (MHz)	ANTENNA BEAM ASSIGNMENT	BAND (MHz)	ANTENNA BEAM ASSIGNMENT
1-2	5929-6006	WH	3704-3781	WH,EH
1-2	5929-6006	WH	10964-11021	WS,ES
1-2	5929-6006	EH	3704-3781	WH,EH
1-2	5929-6006	EH	10964-11081	WS,ES
1-2	5929-6006	WZ	3704-3781	WH,EH
1-2	5929-6006	EZ	3704-3781	WH,EH
1-2	14004-14081	WS	3704-3781	WH,EH
1-2	14004-14081	ES	3704-3781	WH,EH
1-2	14004-14081	WS	10964-11081	ES
1-2	14004-14081	ES	10964-11081	WS
3-4	6014-6089	WH	3789-3861	WH,EH,WZ,FZ
3-4	6014-6086	EH	3789-3861	WH,EH,WZ,FZ
3-4	6014-6086	WZ	3789-3861	WH,EH,WZ,EZ
3-4	6014-6086	EZ	3789-3861	WH,EH,WZ,EZ
5-6	6094-6166	WH	3869-3941	WH,EH,WZ,EZ
5-6	6094-6166	WH	11119-11191	WS,ES
5-6	6094-6166	EH	3869-3941	WH,EH,WZ,EZ
5-6	6094-6166	EH	11119-11191	WS,ES
5-6	6094-6166	WZ	3869-3941	WH,EH,WZ,EZ
5-6	6094-6166	EZ	3869-3941	WH,EH,WZ,EZ
5-6	14169-14241	WS	3869-3941	WH,EH
5-6	14169-14241	ES	3869-3941	WH,EH
5-6	14169-14241	WS	11119-11191	ES
5-6	14169-14241	ES	11119-11191	WS
7	6184-6218	WH	3959-3993	WH,EH
7	6184-6218	EH	3959-3993	WH,EH
8	6222-6256	WH	3997-4031	WH,EH
8	6222-6256	EH	3997-4031	WH,EH
7-8	6184-6256	G	3959-4031	G
7-8	6184-6256	WZ	3959-4031	WZ,EZ
7-8	6184-6256	WZ	11457-11529	WS,ES
7-8	6184-6256	EZ	3959-4031	WZ,EZ
7-8	6184-6256	EZ	11457-11529	WS,ES
7-8	14257-14329	WS	3959-4031	WZ,EZ
7-8	14257-14329	ES	3959-4031	WZ,EZ
7-12	14257-14498	WS	11457-11698	ES
7-12	14257-14498	ES	11457-11698	WS
9	6262-6298	WH	4087-4073	WH,EH
9	6262-6298	EH	4087-4073	WH,EH
9	6262-6298	G	4087-4073	G
10	6302-6338	G	4077-4113	G
11	6342-6378	G	4117-4153	G
12	6382-6423	G	4157-4198	G

MARITIME	1636.5-1644.5	G'	4192.5-4200.5	G'
MARITIME	6417.5-6425.0	G'	1535.0-1542.5	G

WH = WEST HEMISPHERIC
EH = EAST HEMISPHERIC
WZ = WEST ZONE
EZ = EAST ZONE
WS = WEST SPOT
ES = EAST SPOT
G= GLOBAL (EARTH COVERAGE)

POLARIZATION:

TRANSMIT:

WH,EH,G	RHC
WZ,EZ,G'	LHC
WS,ES	LINEAR

RECEIVE:

WH,EH,G	LHC
WZ,ES,G'	RHC
WS,ES	LINEAR

SCANNER REPAIR/MODIFICATIONS

- REPAIRS ON ALL TYPE RECEIVERS - FAST SERVICE
- REALIGNMENT TO RECEIVE LOW UHF GOVT BAND
- IMPROVED SENSITIVITY FOR GOVT BANDS
- WE MODIFY TO YOUR NEEDS
- GOOD SELECTION OF GUARENTEED USED SCANNERS ALIGNED FOR SUPER SENSITIVITY

RMA ELECTRONICS (MEMBER MA.088)
96 RICHARDSON ROAD
NORTH CHELMSFORD
MASS. 01863
617-251-7216 (6-11PM)

PAID ADVERTISEMENT

VHF Marine

Rod O'Connor, Editor

Send information, articles, frequencies and how they are used, and questions that relate to private, commercial, and Coast Guard VHF maritime and inland waterways radio communications to: Rod O'Connor, USCG Group, 259 High Street, South Portland, Maine 04106.

As the summer season progresses, information and comments from other members has been arriving on a pretty steady basis.

This month I am pleased to include a list of the common frequencies in the Saint John, New Brunswick, Canada area, including the Bay of Fundy. (The Bay of Fundy is the site of some of the world's greatest tide ranges, upwards of 35 feet!) From Brian Cornish (CAN 013)

Chan.	Freq.	Use
6	156.30	Ship to Ship and Tugs
9	156.45	Irving Oil Marine
10	156.50	Ship to ship
11	156.55	Ship to ship, tugs
12	156.60	Canadian Coast Guard, Vessel Traffic Service. Similar to USCG Vessel Traffic Systems. Used to monitor and control shipping traffic in Bay of Fundy.
13	156.65	Port Operations
14	156.70	Fundy Traffic Control
16	156.80	Ship Safety and Distress
19	156.95	Canadian Coast Guard Working
21	161.65	Canadian Coast Guard Weather (WX4)
26	157.3/161.9	Canadian Coast Guard Radio Saint John "VAR" Marine Operator (Channel 26)

Brian advises that he has vessel movement charts for the Bay of Fundy Traffic System. If any other members would like more information on it, contact Brian at Apt.22, Simond House; Newman Street; SaintJohn, New Brunswick, Canada E2K 1X5.

I would like to feature other U.S. or Canadian ports, possibly as a "Harbor of the month" feature for future editions. Your comments and contributions are requested. I am also thinking of featuring Coast Guard Notice to Mariners broadcast schedules later on this year after the summer season.

Some good information from GARY (CA OR 030), who has a friend working on a large oil tanker during a stopover in Long Beach. Gary was given a tour of the ship and radio room, and observed a couple of two-way radios in their battery-chargers. On the back of the sets were the frequencies CH.1 - 457.525 CH.2, 457.550 They are used as a business channel for shipboard communications, with three watts of power.

Accompanying chart furnished by Frank (MO 14) is a handy guide to frequently used VHF Channels. The corresponding frequencies have been printed in previous RCMA Bulletins, namely the editions of Oct. 79, Aug. 80 and Oct 80.

See you next month.

US/INTERNATIONAL VHF/FM MARINE FREQUENCIES

AUTHORIZED USE

CHANNEL W1 W2 - W3
WEATHER (RECEIVE ONLY). To receive weather broadcasts of the Department of Commerce, National Oceanic and Atmospheric Administration (NOAA).

CHANNEL W4
CANADA WEATHER (RECEIVE ONLY).

CHANNEL 05A
U.S. PORT OPERATION-SPECIAL

CHANNEL 06
INTERSHIP SAFETY. Required for all VHF-FM equipped vessels. For intership safety purposes and search and rescue (SAR) communications with ships and aircraft of the U.S. Coast Guard. Must not be used for non-safety communications.

CHANNEL 07A 10 78A - 80A
COMMERCIAL (INTERSHIP AND SHIP-TO-COAST). A working channel for commercial vessels to fulfill a wide scope of business and operational needs

CHANNEL 08 67 77
COMMERCIAL (INTERSHIP). Limited to intership communications.

CHANNEL 09
COMMERCIAL AND NON-COMMERCIAL (INTERSHIP AND SHIP-TO-COAST) Some examples of use are communications with commercial marinas and public docks to obtain supplies or schedule repairs and contacting commercial vessels about matters of common concern.

CHANNEL 11
COMMERCIAL (INTERSHIP AND SHIP-TO-COAST). Same as channel 7. It should be noted, however, in certain ports channels 11, 12 and 14 are to be used selectively for the Vessel Traffic Service now being developed by the United States Coast Guard.

CHANNEL 12 14 65A - 68A 73 - 74
PORT OPERATIONS (INTERSHIP AND SHIP-TO-COAST). Available to all vessels. This is a traffic advisory channel for use by agencies directing the movement of vessels in or near ports, locks, or waterways. Messages are restricted to the operational handling, movement and safety of ships and, in emergency to the safety of persons. It should be noted, however, in certain ports 11, 12 and 14 are to be used selectively for the Vessel Traffic Service being developed by the United States Coast Guard.

CHANNEL 13
NAVIGATIONAL-SHIP'S BRIDGE. The channel is available to all vessels and is required on large passenger and commercial vessels (including many tugs). Use is limited to navigational communication such as in meeting and passing situations. Abbreviated operating procedures (call signs omitted) and 1 watt maximum power (except in certain special instances) are used on this channel for both calling and working. For recreational vessels, this channel should be used for listening to determine the intentions of large vessels. This is also the primary channel used at locks and bridges.

CHANNEL 15
ENVIRONMENTAL (RECEIVE ONLY). A receive only channel used to broadcast environmental information to ships such as weather, sea conditions, time signals for navigation, notices to mariners, etc. Most of this information is also broadcast on the weather channels.

CHANNEL 16
DISTRESS, SAFETY AND CALLING (INTERSHIP AND SHIP-TO-COAST). Required channel for all VHF-FM equipped vessels. Must be monitored at all times station is in operation (except when actually communicating on another channel). This channel is monitored also by Coast Guard, public coast stations and many limited coast stations. Calls to other vessels are normally initiated on this channel. Then, except in an emergency, you must switch to a working channel.

CHANNEL 17
STATE CONTROL. Available to all vessels to communicate with ship and coast stations operated by state or local governments. Messages are restricted to regulation and control, or rendering assistance. Use of low power (1 watt) is required by international treaty.

CHANNEL 18A - 18A
COMMERCIAL (INTERSHIP AND SHIP-TO-COAST)

CHANNEL 20
PORT OPERATIONS (SHIP-TO-COAST). Available to all vessels. This is a traffic advisory channel for use by agencies directing the movement of vessels in or near ports, locks, or waterways. Messages are restricted to the operational handling, movement and safety of ships and, in emergency, to the safety of persons.

CHANNEL 21A
U. S. GOVERNMENT ONLY-COAST GUARD RESTRICTED.

CHANNEL 22A
COAST GUARD LIAISON. This channel is used for communications with U. S. Coast Guard ship, coast and aircraft stations after first establishing communications on channel 16. Navigational warnings and, where not available on weather channels, Marine Weather forecasts are made on this frequency.

CHANNEL 23A
U.S. GOVERNMENT ONLY-COAST GUARD RESTRICTED (PHONE INTERNATIONAL).

CHANNEL 24 - 28 84 - 87
PUBLIC CORRESPONDENCE (SHIP-TO-COAST). Available to all vessels to communicate with public coast stations. Channel 26 and 28 are the primary public correspondence channels.

CHANNEL 68 69 71 78A
NON-COMMERCIAL (INTERSHIP AND SHIP-TO-COAST). A working channel for non-commercial vessels. May be used for obtaining supplies, scheduling repairs, berthing and accommodations, etc., from yacht clubs or marinas, and intership operational communications such as piloting or arranging for rendezvous with other vessels. It should be noted that channel 68 (and channel 70 for intership only) is the most popular non-commercial channel.

CHANNEL 70 72
NON-COMMERCIAL (INTERSHIP). Limited to intership communications.

CHANNEL 81A
U.S. GOVERNMENT ONLY-COAST GUARD RESTRICTED.

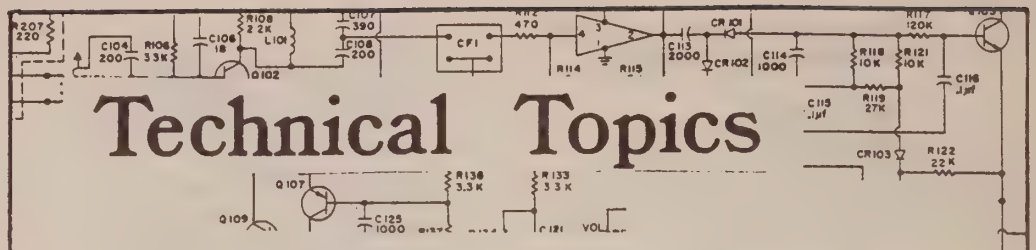
CHANNEL 82A
U. S. GOVERNMENT ONLY

CHANNEL 83A
U.S. GOVERNMENT COAST GUARD AUXILIARY.

CHANNEL 88A
COMMERCIAL (INTERSHIP). Limited to intership communications and between commercial fishing vessels and associated aircraft while engaged in commercial fishing in the Great Lakes, used as public correspondence

NOTE
Most of the above channel frequencies correspond with I.T.U. (International Telecommunication Union) authorized channels. Wherever the frequencies differ, the channel designated A is authorized for use only in the U.S.

1. During the ice seasons, ship stations shall avoid harmful interference to communications on 156.300 MHz (Channel 06) between icebreakers and assisted ships.
2. Channels 15 and 17 may also be used for internal operational communications on board ships, provided the effective radiated power does not exceed 0.1 watt, and subject to the national regulation of the administration concerned when these channels are used in its territorial waters. On channels 15 and 17, the maximum frequency deviation shall be limited to +/- 5 KHz. Until 1st January 1983, the effective radiated power of ship stations must not exceed 1 watt.
3. Channels W1, W2, W3, W4 and 16 are used for weather reception in the U.S. and Canada. No transmissions permitted from shipboard



Technical Topics

Chuck Smith, Editor

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions, or even computer applications for monitoring to: Chuck Smith, 4901 Heil Avenue, No. 3C, Huntington Beach, CA 92649.

- The J.I.L. SX-200 -

by Richard Barnett (MA-004), Public Safety East Editor

While at the Consumer Electronics Show in Chicago a few weeks ago, I decided to pay a visit to the J.I.L. Booth to ask about their highly-touted new scanner, the SX-200. We all know that the unit has been a big seller in Europe, Japan and in some other regions, yet we've questioned why the radio wasn't being marketed in the U.S. Well, F.C.C. clearance was the main roadblock, but as you can see from the insert in this issue, the SX-200 is now available and was definitely worth the wait.

Anyway, I met Mr. Al Kovac, the Executive Vice President of J.I.L. America, at the JIL booth and spoke with him at length about the interest the R.C.M.A. membership has shown in the unique radio. We agreed that with the somewhat prohibitive price of the scanner it would be the professional scanner buff -and/or user- that would be most interested in its fantastic features and that the R.C.M.A. best represented this group of people. Hence, this first american advertising of the unit was born with a special discount for the membership. To better inform you of the SX-200's features and performance, however, Mr. Kovac sold me his only unit on-hand at the time, and below is a report on the scanner.

To get an unbiased appraisal of the radio I brought it up to New Hampshire and had a couple qualified technicians go over the unit with me. Robert Coburn -W1JJO (NH-003)- and Ed Soomre -N1BFF (MA-017)- were the two who helped out and both were quite pleased with the capabilities of the unit even before we ran the test. The reason: the amazing bandwidths available. 26-88MHz, 108-180MHz and 380-514MHz -spreads that we've never seen before, especially in the 26-88MHz range. From 26-30 there's not only the C.B. band -which is of course monitorable with the AM-FM selector switch- but also Amatuer Radio, Business Radio and Forestry & Petroleum and Remote Broadcast activity. Then you have your 6-meter amateur band just above 50MHz and from there on up businesses, pagers, highway callboxes, television audio and other goodies. You get the aircraft band from 108-136 and from 136 through 144MHz you have a great deal of military activity for the asking. I don't believe there's much between 174 and 180MHz, but it too is included along with the basic 144-174MHz VHF-Hi range. Finally, on UHF, there is an extended spread from 380-420 with which military aircraft and Federal Government action can be monitored. It is too bad that the military air spread couldn't have been the full range from 225-400MHz, but as Bob Coburn pointed out, with the other, lower, extended bands, hooking-up a converter to this or any range is made much easier.

Again I want to call your attention to the AM-FM selector, for this really sets the unit apart. Although it is not possible to have some channels on AM and others on the FM mode during scanning, you can hear, say, FM transmissions while the radio is on AM, sometimes perfectly, sometimes a little garbled, but always adequetly -although this may be a matter of preference.

Before we go on to the many other innovative features, I like to call your attention to the ever-important sensitivity ratings. JIL has the unit, in the FM mode, with a .4uV from 26-180 S/N 12dB and a 1.uV from 380-514. We were not able to test AM -JIL has a 1.0 and a 2.0 rating respectively- yet we did find major discrepancies with the FM rating -actually in their favor! From 26-75MHz we found a typical sensitivity reading of 0.3 microvolts with a dropoff between 75-88MHz to 0.15. From 120-150MHz we were really bowled-over when we had consistent readings of 0.15 -with 0.2 from 150 to 180MHz. In the UHF band we found a high of .9 at 400MHz which slowly dropped off to .4 at 440 and .25 at 480! Admittedly, on VHF-hi my reception just doesn't seem to reflect the stats, but on UHF the reception seems to be even better than what our figures would suggest! I've been receiving departments with the SX-200 on UHF which I couldn't get

with other units even when I had pre-amps and beams attached! It is absolutely an awesome receiver on UHF. I know from prior experience with the JIL SX-100's though that any band can be peaked up -at the expense of the others- quite easily with amazing results. This is especially true of VHF-lo. The unit, interestingly enough, almost full quiets as soon as circuit breaks, The selectivity is good and the sound, with a top mounted speaker is very good with a nice tone to it (2 watts of audio output).

There's a clock, a redesigned "Search Mode" which allows quick non-maximum or minimum searching or the more useful searching within a spread of your choice. 16 channel scan or operator-choice scanning of particular channels is available. A unique fine-tuning adjuster is located on the front panel which is especially useful to cut out noise with the four digit KHz (.2625) frequencies, and to lock-on distant weak signals. Frequency spacing is very good -either 5 or 12.5 KHz- and frequencies such as 450.6125 are possible (displayed as 450.612 unlike the SX-100 which displayed -.615).

On the back panel there are a lot of extra goodies which I don't believe are mentioned on the advertisement. These will hold a particular interest to all of you as they are quite innovative. Firstly, however, there is an auxilliary capability for tape recorders, a battery housing for memory witholding (2 AA's) during power disconnects, power cord, antenna and speaker jacks and a dimmer control for the flourescent display. There's too a switch which permits the clock to display when the power is off. Then you have a scan delay selector switch and best of all a totally new idea for the squelch circuitry: A three position switch which allows for a standard "carrier" operated squelch, a squelch where scanning is stopped by the received signal's carrier but the audio is silenced until modulation is put on the carrier, and lastly a setting where scanning will not stop until a carrier with modulation signal is received -for the search mode so all the birdies and garbage will not interfere with operations.

Entering a frequency into memory is cumbersome until you get used to it, but that takes no time at all -you must press "ent" then "mw" then the channel number where you want the frequency programmed. The green readout is very nice for the home and for the car. It's an extremely sturdy unit if it's anything like the SX-100 in that regard and the problematic squelch control of the SX-100 has been for the most part cleared up with this unit.

I hope to have more on this radio in a future issue as I have a longer time to test it, but every indication so far points to an outstanding scanner -especially on UHF-. A scanner well worth the wait we've been through and too well worth the money.

International

Richard Stein, Editor

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to: Richard Stein, 456 Barrymore Place, North Brunswick, NJ 08902.

Several months ago we discussed some of the US signals, which after keying foreign repeater systems, skip back up and appear on a different frequency. A follow-up letter from Bob Kurtz (MD-029) gives us the following:

RECEIVED ON 33.900 AND 36.900

KBR-226 Berkey Co. WV
KGC-755 Lancaster Co. PA
KGE-633 Dauphine Co. PA (used 33.900 until switch to 33.800 for main dispatch. Still uses 33.900 for Mutual Aid
KGH-770 Lebanon Co. PA
KRE-714 York Co. PA
KRG-767 Talbot Co. MD (rarely received)
KUG-740 Ephrata (Lancaster Co.)PA

It's interesting to listen to these direct and then on 36.900 which at times is the stronger signal!

RECEIVED ON 36.900 ONLY

KBP-749 Hedgesville WV
KBZ-283 Lakes Region, NH
KCA-585 Plymouth, MA
KCA-661 Carver, MA
KDA-381
KDA-383 Milford, NH
KDC-288 Hollis NH
KGD-468
KJY-884 Chester Co. PA (and mobiles)
KKL-240
KQA-216 Cleveland, OH
KQI-316 Hamilton Co. OH
KRZ-270 Pt. Crane (Fenton area) NY
KSX-310 Hollis, NH
KTA (KPA)-262
WZJ-449
Spanish
York Co. PA mobiles

ON 40.460
KDD-947 (44.940 act.) Kansas SP Dodge City KS
KJE-260 (which sounds like KJA-26) KS SP
Spanish

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George (OR-001) and Larry (MI-001) send the following additions to the Guam listings in the January 1981 Newsletter.

		Guam, USA		George (OR-001)
30.76	Business	KYN 486	Bordallo Construction	Agana
30.80	"	KCD 216	MAGOF, Inc.	Yona
30.88	"	KBH 451	Flair Furniture	Dededo
30.92	"	KWY 348	Guam Cable (input to 33.16)	
30.96	"	KFJ 648	Aviation Services, Ltd.	Barrigada
31.00	"	KGE 381	Rainbow Center, Inc.	Mangilao
31.20(R)	"	KWY 739	Lujan Wrecker	Agana
33.16(R)	"	KWY 348	Guam Cable TV, Inc.	Agana
35.06	"	KLD 231	Carlos Construction	Agana
35.10	"	KWS 339	Commercial Sanitation	Dededo
35.12	"	KZW 295	Frank Cruz Wholesale	Agana
35.18	"	KWS 339	Commercial Sanitation	Dededo
35.70	"	KUF 228	Sussex Elec.Contracting	Tamuning
35.72	"	WYE 825	Guam Transportation Co.	Tamuning
35.94	"	WAJ 962	Lujan Wrecker (Input to 31.2)	
35.98	"	KUM 431	International Service Co.	Tamuning
43.00	"	KWC 513	Design Builders	Tamuning
"	"	KYI 415	Guam Travel Bureau	Tamon Bay

MISC. SERVICES FOR THE ISLAND OF GUAM

-- LARRY [MI-001]

43.000		GUAM TRAVEL BUREAU	TUMON BAY	KYI-415
151.430	MR	GUAM DEPT. OF AGRICULTURE	AGANA	KRR-980
151.745		DUTY FREE SHOPPERS, LTD.	TAMUNING	KDQ-553
151.865		PACIFIC SECURITY ALARM, INC.	SINAJANA	KBE-405
153.500		GUAM OIL REFINING COMPANY	AGANA	KZD-66
154.025	MR	GOVT. OF GUAM LOCAL GOVT.	YONA	KJZ-953
154.515	MR	GUAM TRIBUNE	AGANA	WSH-781
154.965	BR	GOVT. OF GUAM POLICE	AGANA	KZW-883
154.965	MR	GOVT. OF GUAM POLICE	ANDERSON	KZW-883
154.980	MR	GOVT. OF GUAM LOCAL GOVT.	MT. LIBUGON	WAM-944
155.085	[illegible]	GUAM HOUSING & URBAN RENEWAL	AGANA	KBY-849

155.160		GUAM MEMORIAL HOSPITAL	TAMUNING	KJV-259
155.370	BR	GOVT. OF GUAM POLICE	AGANA	KLW-870
155.880		GUAM GOVT. AIRPORT AUTHORITY	AGANA	KXK-342
155.955	MR	GUAM DEPT. OF PUBLIC HEALTH	RIGADA	KTA-924
157.620		MARITIME AGENCIES OF THE PACIFIC	PITI	KLA-325
158/745		GUAM PORT AUTHORITY	PITI	KVN-523
158.895	MR	GUAM DEPT. OF PARKS & RECREATION	RIGADA	WQA-705
159.180	MR	GOVT. OF GUAM HIGHWAY MAINTENANCE	AGANA	KSQ-466
173.225		GUAM PUBLICATIONS, INC.	AGANA	KFD-943
461.875	MR	FIRST HAWAIIAN BANK	AGANA	KDH-533
463.175		OFFICE OF CIVIL DEFENSE	UMATAC	WQD-232
463.400	MR	XEROX INTERNATIONAL, INC.	AGANA	KVK-912
463.750		GUAM HORIZON HOTEL	TAMUNING	KG-3591
469.925		LOCKHEED CORPORATION	BARRICADA	WSC-279

••••

I received the following letter in response to a question concerning Shepherd Industries and their crystal certificates. Seems as tho' Shepherd is out of business. Letters to two addresses were returned and their phone is disconnected. This letter is good news if you're holding any certificates. Until next month, שלום

RCD June 1, 1981

P.O. BOX 1494 -- 806 CUSTER AVENUE -- NORFOLK, NEBRASKA -- PHONE: (402) 379-0112

Rickey Stein
456 Barrymore Place
N. Brunswick, NJ 08902

Dear Mr. Stein,

Yes, we do honor the Shepherd certificates. Please send them to us and we will be happy to redeem them.

If the crystals are stock crystal, we ship the crystals out to you within 24 to 48 hours after receipt of the order. If they are non stock and have to be special built there is a minimum of 6 to 8 weeks waiting time.

Sincerely,

RCD

Radio Communications Monitoring Association

P. O. Box 4563 / Anaheim, CA 92803 USA

ADVERTISING GUIDELINES

1. Ads for products or services must relate to the hobby of monitoring two way radio communication such as receivers, crystals, antenna systems (antennas, coax, coax fittings coax switches, supporting structures, rotators, pre-amplifiers, etc.), carrier operated relays frequency counters and RF signal generators (both must be capable of operating at least to 512 MHz), converters, external synthesized oscillators, frequency references, books, appropriate tape recorders, appropriate computer hardware/software, CRT and hardcopy readouts for ASCII, etc.

continued

2. Ads that will not be accepted include frequency lists that reveal "sensitive" or classified frequencies, unscramblers and any other products that are not in the best interest of the club or hobby.

3. Ads for Scanners/Hardware of value greater than $100.00 should not include prices. Readers must contact the advertiser for prices.

4. Auxilary hardware items (coax, antennas, crystals, power supplies, etc.), books, frequency lists and other printed matter can include prices.

5. The Board of Directors shall reserve the right to reject any advertising copy if it so chooses.

6. Whenever possible, products or services sould be described in an informative, educational manner.

7. The amount of advertising in the Newsletter shall never exceed 12.5%, not counting the cover in the page count.

8. Space for advertising shall be sold only by the ¼ page, ½ page and full page.

9. Advertising must fit "confortably" within the confines of a rectangular box. The box size for a ¼ page ad is 7 inches wide by 2-3/4 inches high. The box size for a ½ page ad is 7 inches wide by 5½ inches high. The box size for a full page ad is 7 inches wide by 11¼ inches high.

10. Advertisers must supply camera ready copy in dimensions listed above.

11. Location of advertising within the Newsletter: No ads shall apear on the cover, inside or out, or on any of the first 10 pages. The location of advertisements within these limits shall be at the discretion of the Newsletter editor.

12. Advertising rates: $36 for a full page ad, $20 for a ½ page ad and $12 for a ¼ page ad.

13. Payment for advertising: Checks or money orders must be made payable to "RCMA" and accompany the advertising copy.

NEW MEMBERS LIST

LIST/MEMBERTOTALS

AL.....14
AR.....13
AZ.....29
CA.....786
CO.....28
CT.....39
DC.....7
DE.....10
FL.....108
GA.....32
HI.....5
IA.....26
ID.....5
IL.....157
IN.....37
KS.....21
KY.....23
LA.....21
MA.....88
MD.....49
ME.....14
MI.....73
MN.....25
MO.....46
MS.....16
MT.....3
NB.....3
NC.....26
ND.....4
NH.....12
NJ.....113
NM.....7
NV.....11
NY.....143
OH.....90
OK.....19
OR.....31
PA.....131
PR.....2
RI.....8
SC.....10
SD.....4
TN.....17
TX.....86
UT.....8
VA.....47
VT.....2
WA.....24
WI.....39
WV.....14
WY.....4

ARUB.....1
AUST.....1
BERM.....2
CANA....60
ENGL.....2
ICLD.....1
INDO.....1
MEXI.....2
NIRE.....2
NORW.....1
NZEL.....1
SAAR.....1
SWED.....2

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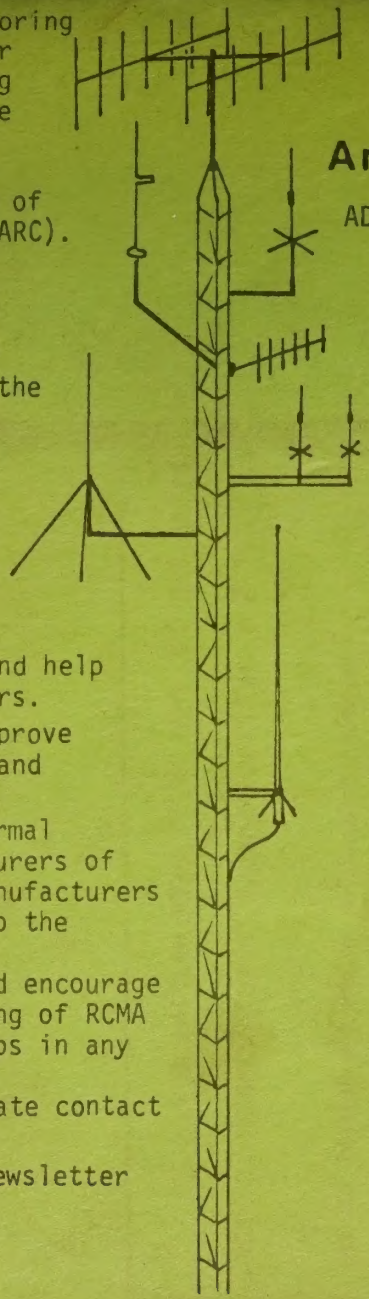
PAID ADVERTISEMENT

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications above 30 MHz as a hobby. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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